



## SEQUENCE LISTING

<110> Reynisdottir, Inga  
Gulcher, Jeffrey R.  
Grant, Struan F.  
Thorleifsson, Gudmar

<120> Human Type II Diabetes Gene-Kv  
Channel-Interacting Protein (KCHIP1) Located on Chromosome 5

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<141> 2004-04-07

<150> PCT/US0334681

<151> 2003-10-31

<150> 60/477,111

<151> 2003-06-09

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<151> 2003-02-25

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 Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys  
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 Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln  
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 Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn  
 85 90 95  
 Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val  
 100 105 110  
 Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg  
 115 120 125  
 Trp Thr Phe Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys  
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 Glu Glu Met Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys  
 145 150 155 160  
 Tyr Thr Tyr Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp  
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Val Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu  
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<212> DNA  
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 Glu Asp Glu Leu Glu Met Thr Met Val Cys His Arg Pro Glu Gly Leu  
 35 40 45

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 Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu  
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 Asp Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly Asp Ala  
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 Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr Gln Thr  
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 Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile Leu Leu  
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 Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu Tyr Asp  
 130 135 140  
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 Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val Leu Lys  
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 Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln Lys Met Asp  
 180 185 190  
 Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe Leu Glu Ser Cys  
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 Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly  
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 165 170 175  
 Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln Lys  
 180 185 190

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       50                  55                  60  
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&lt;222&gt; 88, 164

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

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&lt;210&gt; 16

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 16

```

tgccactca taagatgctg aggttacaac tgttaataag atattaagat actgtctttt 60
tcttctctt tctctcttac acacacacac acacacacac acacacactt tttgggccaa 120
ctggaaattc atacattctc cccagcactg gagctcaaag cgtctg 166

```

&lt;210&gt; 17

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 88, 164

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 17

```

ggaatgtgcc aagacattct ttaggggttg taaccagaga cgctatatttg tccttggtgg 60
ctaagaaatc acttttctga ctgaaggnc atttgactta cttcttttaa attcagggga 120
atgggtgggc atctccatga ttcaggtaag gaaaaatcca aggnaaataa acacacacac 180
acacacacac acacacacac acacacggag tagaaatttt tagtgcaatt ttttgtctca 240
cagcattaat taattgcagg gatataacta ccttggcaga attttttctc cccaaccac 300
caccccccg aataagtttg gctcttttca gct 333

```

&lt;210&gt; 18

&lt;211&gt; 166

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 18

```

tgccactca taagatgctg aggttacaac tgttaataag atattaagat actgtctttt 60
tcttctctt tctctcttac acacacacac acacacacac acacacactt tttgggccaa 120
ctggaaattc atacattctc cccagcactg gagctcaaag cgtctg 166

```

&lt;210&gt; 19

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 19

```

ttgttgttgt tgggtggtggt ggggtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 60
ttcgagacag actctcactc tgtcaccacg gctggagtgc agtggcacga tctgggttca 120

```

119/203

```

ctgcaacctc tacttctccta gctccaagga tcctctcacc tccacctccc aagtagctgg 180
gactacaggt acgcgccacc atgtctggct aatttttttg tattggagag acagggttcc 240
accatgttgc ccgggctagt gttgcactcc tgagctcagg tgatccaccc acctcaacgt 300
ccccaagtgc tgggattaga ggcgtgagcc accacgtctg gcctatacac tatagagttt 360

```

```

<210> 20
<211> 212
<212> DNA
<213> homo sapiens

```

```

<400> 20
tctggacagg accaggagtt ggctgctgtc agcctttgcc ccacctctct gtggctactg 60
ggtatgtgaa tctctcaagg cctgaagaga ggacagctga ggaatttgga aatcctaaaa 120
cacatgcata cacacacaca cacacacaca cacacacaca cacacacact tttctttccc 180
ttaaaaaaaaa aaagattcat tcaccgtgtg ca 212

```

```

<210> 21
<211> 347
<212> DNA
<213> homo sapiens

```

```

<400> 21
ctgtctacac taccacacca ttagtcactt attagccctc tgaattactg gattgaaaaa 60
acatagtata tatatagggc ttggtactat tcacggtttc aggcattcac tgaggggtgt 120
tgcaatgtat ctcccacgga taaggaagga ctggtatatt aacactttta tttgatttac 180
aaaataaagg atagtttata tagttctggg taaaattaat taattaattt aaaaggaaaa 240
aagataaagg caaactttta gcttggttaa aattaagtaa aataatttgg attattttaat 300
tggaacaaga ggactggctt tgccaatgaa acaatatggc cgacatg 347

```

```

<210> 22
<211> 195
<212> DNA
<213> homo sapiens

```

```

<400> 22
ggaccttctt tctgccctaa aaccgcaata tcattataat aacaaatata tatatatata 60
tatatatatt tttttttttt aaaacaatct tgctatgttg cctaggtctg tgtggaactc 120
ctggcctcaa gtgatcctcc cacctcggcc tcccagagtg ctgggattat agacatgaac 180
taccataccc agcca 195

```

```

<210> 23
<211> 308
<212> DNA
<213> homo sapiens

```

```

<400> 23
cacagccatc aagttttccaa cttactgcct cacatattaa gatgattttt ttaaacaac 60
ttaacaggcg atggatactc cattctccat gatgtgctta attcacatgc atgcttgtat 120
caaaacatct cacatactcc ataaagcctg taatcccaac actttgggat gccaaaggtg 180
gtggatcact tgagcccagg agtttgagaa cagcctggac aacatggcga aacccattt 240
acacacacac acacacacac acacacacac accacacaaa caaatgaaa caaacaccta 300
accaacaa 308

```

```

<210> 24
<211> 305
<212> DNA

```

120/203

&lt;213&gt; homo sapiens

&lt;400&gt; 24

```

tcctaacggc tgctaccact aaagatctta gcatgggtgtg tgtgtgctgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtg tgggtggggct attcagtaag gctagaagtg aaaaagctag 120
tagaaagccc atggtgatgg agaatggagg aagactgatt agggagctcc tcagcagtat 180
aaggaaggac taagagcaca taaggacagg atcatagaat tccgcatctc aggatttttg 240
aggctgccac tgccttagct gtgaggccag tgcataaag aatagtttgc acagttctgc 300
tgtgg                                     305

```

&lt;210&gt; 25

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 25

```

cctctgggat tagcctctca gggtagacat ataacgatga ttgagttggc ttatgtatgt 60
gtgtgtttgtg tgtgtgtctg tgtgtgtgtg tgagagagag agagagagag agagagagag 120
tgacagagag agaattgagag agaactggaa gttgtcaaca agaagagtca aactctgtaa 180
aatatttgaa gagattttatt ctgagccaaa taggagtgcc acagccccgg gagatcctaa 240
gaacatgtgc ccagagtagt caagctatag tttggtttta tacatttttag ggagacataa 300
gacatcagtc aatacatgta agatgcacat tgatacactg gtttagtagg gaaagggtggg 360
acaactcgaa                                     370

```

&lt;210&gt; 26

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 26

```

ggtgccaaatt aaatccaaca aggtagctga gtgtgggtggg gcacgcctgt agtcctagct 60
atgcaggagg ctgaggtggg aggatcactt gagcctggga ggtagaggct gctgtgagct 120
gtgattgcac cgctgcattc cagcctggga gacagagcaa gatcctgaca cacacacaca 180
cacacacaca cacacacaca cacacacaca cattccaaca aggtaatgtg taggaggaag 240
taccagagct t                                     251

```

&lt;210&gt; 27

&lt;211&gt; 335

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 27

```

caactcctgc agccctttac gccaaacaca gaaatccagg aggcagagcc tagcgcttga 60
tgacatggta attgggcctg gaagtgggga tttctgtcac ttacctctcc ttgaaaaata 120
atcactattg ccaacgcctg gttaattagc ctgattcaat tctcttcagc ctcatatttg 180
tcaaattctac cagattttgtg gtgtcctctg gtcctccacc acactttcta cccctcatcc 240
cacttttgtg gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gacatggcca ggaatcctga ctggcttctt ttaaa                                     335

```

&lt;210&gt; 28

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 28

```

aagaccaccc tcctgtttgtg ctctcctgaa atgtattcat atccacccat acacacacac 60
acacacacac acacacacac acacacacac acacacacac acattctctc tctctctctc 120

```



121/203

ttttctctctc tctctttaa gtcagttttc tcttctgtct ttccaga 167

<210> 29  
 <211> 255  
 <212> DNA  
 <213> homo sapiens

<400> 29  
 cttgacattc agggccttct gaggatcatca tcttgtcaag aaacactgaa ctattcagta 60  
 cacaacagggt cagagggtgcc catttgatag cctgaggatg gaatccttat tgcagcattt 120  
 tgcgtcatgc cacatatatg tgttttttca atcctcctct gtttttaaaa ttggaaaatt 180  
 tcatacaaca cacacacaca cacacacaca cacacacaca cacacacacc ccccatacca 240  
 caccacacca catca 255

<210> 30  
 <211> 152  
 <212> DNA  
 <213> homo sapiens

<400> 30  
 agcctctgac tctcctctgt ggggctaato cagaaaatct tacttttagaa ataacaataa 60  
 taataataat aataataata atacctcatt catctttact tatcatgtgc tagtatgttt 120  
 ctaagccttt tggcatagcc ttcaatgtcc ct 152

<210> 31  
 <211> 230  
 <212> DNA  
 <213> homo sapiens

<400> 31  
 ctcttcccat gtctctgttc tctccttctt gggggttggg acccagtacc ctccatctct 60  
 ctcaactctc cctctcctc ccttctttt aggaaggag tccaaatoga ccacttacac 120  
 ctcaattcaa tgcaagccag tataattaat aaggaacatt taagggtgtg taagggtgtg 180  
 tgtgtgtgta tgtgtgtgtg tgtgtgtgtg tagctcactc tgctctgtcc 230

<210> 32  
 <211> 360  
 <212> DNA  
 <213> homo sapiens

<220>  
 <221> misc feature  
 <222> 33, 36, 72, 281, 311  
 <223> n = A,T,C or G

<400> 32  
 gatcaccagg gaatctagat ggaatccata gtncnccct gcaagaatgc tgcaattctg 60  
 taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120  
 gccctgtcc attctccata tcataccag agtgggtctt tcaaagcaca gctttgacca 180  
 attctctgtc ttccacacat acacacacac acacacacac acacacatgc gtgcatgcat 240  
 gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300  
 aaatatatgt ngttaggccc cgtggctctt tcttttcag actcctctta cctttttgtg 360

<210> 33  
 <211> 133  
 <212> DNA

<213> homo sapiens

<400> 33

```

aaatctttcca ttgcagacca attaaaattt aaagattttc tctctctttc cccctcttct 60
ctctctctct ctctctctct ctctcacaca cacacacaca cacacacaca actctccaag 120
cacaaagagc tga 133

```

<210> 34

<211> 245

<212> DNA

<213> homo sapiens

<400> 34

```

tgagtggatg agggagaagg ataaaagtca taaaatgcct cgcaaaaact ttgaggtctg 60
cctgcctggt attacagaga agcttgacac atacagaatg ttttgtggga aggaaggcag 120
gcaggcaggc aggcaggcag gcaggttggt tatgttttca ctcttgatat ctcaaagctt 180
tatgacacac tcatggagtg aacataatct ttgtggcatg atacaaaggg actgaatcac 240
tcaag 245

```

<210> 35

<211> 278

<212> DNA

<213> homo sapiens

<400> 35

```

agctatgata atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
aatataaaca cacacacaca cacacacaca cacacacaca cacacacaca cacacaactt 120
tctgtctgcc ccttctctct tctgttccca tctctgcctt tcttctttcc tctctttgtc 180
aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc aggggaagcca 240
gcaaattagg aattttcttc acaaagtttt gagtagct 278

```

<210> 36

<211> 184

<212> DNA

<213> homo sapiens

<400> 36

```

tctcccatct cctccctagc tatccctgc ctggtaatca ctgttttggt ctctatttct 60
gtacagttgg gtttttggtt gtttggttgt ttttagattc cacatatact tgaaacaatg 120
caatcttttt ctttctttgt ctggtttatt tcacttaaca cagtgcactc caggctcgtc 180
tatg 184

```

<210> 37

<211> 377

<212> DNA

<213> homo sapiens

<220>

<221> misc\_feature

<222> 124, 175, 320

<223> n = A,T,C or G

<400> 37

```

ccagaaagct tcaccaaggg gcgagcatga ttatgcatga gcttcttaaa tctggacttc 60
ccgacagctt ctcatgacag gtcttctgtg gaagactcct tagattcaga ccatcaggcc 120
tttnaaaagc acaggaacct actttacctc gcccaactct acggatggga taggnactta 180
caaggacatt tcctcattgg attccaatgt tcattctccc cttctctctc tcaattaatc 240

```

123/203

```

tccccctctt ctctttctat ctacacacac acacacacac acacacacag agagagagag 300
agagagagag agagagagan agaaacagct tcttcacagc gggaagcagg ggaagggtat 360
ctatttccgg caagatc 377

```

```

<210> 38
<211> 379
<212> DNA
<213> homo sapiens

```

```

<400> 38
aaagtcagct agggcgactg agccagagag atggggcaca cagcaagagg agacctgaca 60
aagtgcagggt gtgtcctaga gaaggcaagc gagaccactg catgattgga ataccagcca 120
acccttgccct gttcttggttc cagcaaagtg ccctttttaa ataaatttat gtatatagtc 180
tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtataga catatagaaa tatatattcc 240
taattcagaa ctcatctgta agtgcacaca ctgacatgtg tttcatgttt cccaatttat 300
cccagagcct atatgcagt tttggctgca caagtaggca ttaaattgcaa ccactgggaa 360
tgagaatggt ggccacaac 379

```

```

<210> 39
<211> 370
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 24, 97, 104, 274
<223> n = A,T,C or G

```

```

<400> 39
agctttgaaa toccatccaa actnattggc gtttcaaact gaatcccaga tgttcactta 60
ctgagaaata aatgaatggc ccaattcgtg gactgangca gggncctca caaatagatt 120
ccagggtgtg tggcctctgg accactatct ttctctgttt tacatacaca tacatacaca 180
cacacacaca cacacacaca cacacacaca cacacacacg gcaccaagtc catcctgaaa 240
agaattcaac gtcattctcca agttagagcc agtntaggat gaacagagggt agttacctaa 300
cacaaataac atattttcaa ttgtggatga aggcaaaggg ctccacattc acactcttgt 360
gccttcaata 370

```

```

<210> 40
<211> 154
<212> DNA
<213> homo sapiens

```

```

<400> 40
ggcatgggat gtttgacctt agagatggac taaagccaat gagtaaaaaat gttaaagcgta 60
cttagtcaaa taaattcttc tctctctctc tctctctctc tctctcctta ttcactcactc 120
ttgggccgctg atgatgatga gggagaggag cagt 154

```

```

<210> 41
<211> 390
<212> DNA
<213> homo sapiens

```

```

<400> 41
tatttgccctg cctgggttag atgattctcc aggtttctac acaattttat gtttatatga 60
aaatagccac aaagggaataa gaggacaata aaacaagaga tatgaataat aatgtattgt 120
atacttgaaa tttgctaaaa gagtagatct caagtgttct acatacacac acacacacac 180
acacacacac aaaggtaatg aatgagatga taggtgttaa ttaacttgat tgtgggtaac 240

```

124/203

```

acttcacaat gtatacatat aaaaacatca tgttttacaa cctacattta tacaattcct 300
caattatata tcaataaacc tggaaaaata aagatgtata aaaaagattt acaaataaga 360
tttttaaaaa aggattgtga ggaaacaaag                                390

```

```

<210> 42
<211> 192
<212> DNA
<213> homo sapiens

```

```

<400> 42
accagctaac ctgccatgag actggtgtgt agccatcttc acctcctcat cttcagggaa 60
ggggatgaaa atatctgtgc actgcaaagt ttaactatat atacacacac acacacacac 120
acacacacgt acagtaggcc ctocataacc tgagggtcca catctgcata ttttaccaac 180
tctggtccct gc                                192

```

```

<210> 43
<211> 242
<212> DNA
<213> homo sapiens

```

```

<400> 43
ttgttcctga atgggaggag gactggtgag tgagggggaa agaatggaga caggactgag 60
aagaaccaga aattaaaata atagtagtaa tagcctaaca tgtacacgta tatgagatct 120
atctatctat ctatctatct atctatctat ctatctatct atcatctata tatctatcat 180
ccatcatgta tctatctatt tgcatatata agctataata tctggctctg ttctaattgt 240
tt                                242

```

```

<210> 44
<211> 249
<212> DNA
<213> homo sapiens

```

```

<400> 44
ccaggcttgg atgagagaat aatcttaagg aagtcagcat atgttctaga aacattcaga 60
agacaaaaga gtctgttatg aaagaacaaa gtatttgtaa taataaattg aatgtttacat 120
ggacacaccc agacatacac acacagacac acacacacac agtttttctt ctctctctct 180
ctctccccac tcccctctct catactttgc aaacaagctc ctcagcagct ggtaagctgt 240
tccctgtcc                                249

```

```

<210> 45
<211> 305
<212> DNA
<213> homo sapiens

```

```

<400> 45
tcttgactgc tcaaagctca aggtgttgcc tttttcaa at gggatgcaat agcctactca 60
ttttccaaga tttaaagctag agagaagaat gaatgaatga ataaataaat aaataaataa 120
ataaataaat aaataaatga gcaaagttaa tattagctgg aaaaaatagg gtacaggtgg 180
aaggaatgaa cccatattga gagtccacta tgtgtcaa at tccttgcatg gaatctctaa 240
gggtctgtcta gcttaaaagc aatgccagcc ttgtatctgt tacttgatga ggagatggat 300
cggaa                                305

```

```

<210> 46
<211> 353
<212> DNA
<213> homo sapiens

```

125/203

&lt;400&gt; 46

```

ccaaactgca aacccaaact tctacaatga attcatgtgc aacttattct aaaagatcta 60
tacacacaca cacacacaca cacacacaca cacacacaca cacttcctgt cctattgctc 120
ttcactactt ccttcatctc tgtgctacaa tctgggttca tttttcttcc ccttgagtaa 180
tttattatgt tttttacagt gagtctgttg ctcaaaaatt ctttttagtat ttatttgtat 240
aaaaagtctt aattttgtct tcatataaaa ttttgtttga cactctatta taaattgact 300
gttattctct ttccatgttt tccggacata gttccattgt cttctgactt cca 353

```

&lt;210&gt; 47

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 4, 55, 133, 189, 227, 228, 252, 259, 263

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 47

```

ttcnacctta tgggtatatc gaattgtaac cccgttgtag gtcaaggagc atctncatat 60
atacatatcat agatgataga tagatagata gatagataga tagatagata gatagataga 120
tttaattcta aantttccaa ataactcttc atttaaataa ttatagtttt acaacaattt 180
catatatntnt ataggtagga gaattagggt tttccagaga aatagannca ataggctgtg 240
tgtgtatata angatttant ttnaaga 267

```

&lt;210&gt; 48

&lt;211&gt; 299

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 48

```

gttgggcatg atgggtgtgta cctatagtcc tagctacctg ggaggctgag gcaggaggat 60
cccttgagcc caggagttta agactaacia gactocatct ctgaaaaata aggcaaaaaa 120
agtatgaaga ataaaataac aatcaattac attccaacca cctataatta atcattgcc 180
acacctgagg atatttgctt ccaatctaca agactgcatt attattatta ttattattat 240
tattattatt attattatta ttattattat tgagatgggg gtttctcttt gttgcccag 299

```

&lt;210&gt; 49

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 49

```

gcagacaggg ttcaaattcc agcctcccct catattagct gtgtgatctt aggcaagttt 60
attcatgtgt aaaaagaaat aataacctct tctcgtgggg ttgcagggtta aacaaaagag 120
taggtattaa aacaactaaa agagtatgat tggattgttt ataacacaaa ggataaatgc 180
ttgaggacat ggatcccat cttccatgat gtgattttta tgcattgtat gcctctatca 240
aaacatctca tttactccat atatatgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gtgtgtgtgt gtatgtgtat gcacacacta tgtgcccaca aaaattaaaa attttaaaat 360
taaaaaattt taaaaataaa catgctgctg ggc 393

```

&lt;210&gt; 50

&lt;211&gt; 201

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 50

126/203

```

agctgccagc acacaaggcc cagaggtact ttattggatg ccaaattctt ttaacacacc 60
atgagaaaag aagttgacaa ctttcccatg cattttggaa ggtgtgttag aacgattcaa 120
cacacacaca cacacacaca cacacacaca cacacacaca cacatttatt gggttggggg 180
agccttaaaa cttacaaatc t                                     201

```

<210> 51  
 <211> 246  
 <212> DNA  
 <213> homo sapiens

```

<400> 51
aatttcttac cttttatccc cgtcttctac tcccattcca catgcccccc acccccatg 60
aatgatttgt ctaatgcggt gaatatgcac gtgtgggttt ggtgtcatgt atgtttacac 120
acacacacac agactctctc tctctctctc tcacacacac acacacacac acacacacac 180
acacactcat gcctctcctt tgaagaggat cagatatgga cagcaaaggg cattagcatc 240
ttagct                                     246

```

<210> 52  
 <211> 351  
 <212> DNA  
 <213> homo sapiens

```

<400> 52
gctccaaagt tcctgattcc aaagcctaag ttaagccatc ttaacttata tttcaggtga 60
ctagtggaaat tttttatgcc cagtgtaggt ggtaatgacg atggagatat ggcatgatg 120
atgatgatga tgatgatgat gatgatgatg atggcagtag tgggtggtgg gttggtgatg 180
gtgttgaaga tcaccatgtc tgaccactgt tgtctgtgtc ctttgtacaa ttgttcagat 240
gcagtgtcct ggttgtcaca tagatgtctc tgactgtttt acaggccttc acctaccacc 300
atatccagga gatcatggtc cagctgctgc ggacagtga cgggacagtc a 351

```

<210> 53  
 <211> 364  
 <212> DNA  
 <213> homo sapiens

```

<400> 53
ttaaccact gctcccattt tgctgggtgga aaactgaaaa ccaaagagat taagtcattt 60
accdaaggtc atgtaactaa tatattgaat ctcagatgtt ttaatgattt tgactcattt 120
ccaatttgcc tggctatata gagaaaatat ttgaggaatt gacagggaac acacacacac 180
acacacacac acacacacac acacacacac acagagggag ggaggggaga gagagagaca 240
gagacagaca gagactgaac agattatttc tccactgatg ttcattattt agatctattt 300
tcaacattta aaggcaattg tcagcatagt caattcagcc attttaaacc atcaagggcc 360
aatg                                     364

```

<210> 54  
 <211> 161  
 <212> DNA  
 <213> homo sapiens

```

<400> 54
gcaacctatt tgtagcagc acatgcgtgc gtgtgcatgc acgtgggcac acacacacac 60
acacacacac acacactctt tgcaggggaa ttttgagcca gaaatttatc tgtaggcca 120
tattcattcc tttttgcaca tttctattgt gaccttgggc a 161

```

<210> 55  
 <211> 269  
 <212> DNA

127/203

&lt;213&gt; homo sapiens

&lt;400&gt; 55

```

caattccaca cagctggaga gtaacaaagc cagaaatcac atccatttgt gtgtgtgtgt 60
gtgtgtgtgt gtgtccaaat cctgtgattc cagtgccagg atacactgtc ttccgtgttc 120
aacagtcattg aaagtatttt aatgaacacc tggccctgca gtgcctgatg tagcaaatgc 180
tgcagatact ccacccaccg actcttggac caccctaaaat ccactggcag cttcagttag 240
gctttcttac ttctttcttt ccttgggt 269

```

&lt;210&gt; 56

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 56

```

cactggactt ggagtcagga catcatttta acagctttat cgagatgtaa tttacatgcc 60
atacaattta cccaaagtgt acaatcattg actcttagta tggtcacaga gctatgtaac 120
catcaccaca atcaatttta caacattttc attactccta aaaagcaaac ctgcaccct 180
tagccactgc tctgccaaca cacacacaca cacacacaca cacacgcgtg cgcacacaca 240
cccaaact c 251

```

&lt;210&gt; 57

&lt;211&gt; 141

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 57

```

cgcgtgtacc tccacataga tggttgccaa tgcctatgcc caagacacac acacatacac 60
acacacacac acacacagga tacattcaag cacacactaa tgtatgtgca cttgcctgca 120
cagagtccac atcacacagg c 141

```

&lt;210&gt; 58

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 58

```

agcttctagt ctgctatgtt gctaattgtc ttcttgggtc tcttttaaaa ccatttctgt 60
gaaattatag cctccttact cccttaccct gactctggat gtttctgaag atgactgac 120
tctacagtga gaaggccctg ggaattgact gactcactct ctctgtctct ctctctctct 180
ctctcacaca cacacacaca cacacacaca cactcatata catacacaca tagatacaca 240
tatacatgca tccacacatg cacaccctgg gcacaccac acaccctaca actgcacatg 300
catgcacaca cataatgtta actgaagg 328

```

&lt;210&gt; 59

&lt;211&gt; 313

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 59

```

agcttttggc tatggaacct taggcaagat gttcataaac cctttaatct ctagtgcct 60
tggtcataaa aagaagtga tgggatccct gcaggactgt ttttgtattc agtgcacagg 120
tgtgtgtgaa gacaccagc atgttgccag gcacacagag atgtctacct tgatactttt 180
ctctcctcct ccccgcaaat acacacacac acacacacac acacacacac actcacacac 240
tcttattttg atcttggcct gaggtgaca agccccagat tagtgatcag tgacaatttc 300
ggctttatca gct 313

```



128/203

<210> 60  
 <211> 242  
 <212> DNA  
 <213> homo sapiens

<400> 60  
 cgaggatgca cacctcatta attgaggagc taggatttag atccagagcc tcatgattct 60  
 aaagcctgtt ttttgtttgt ttgtttgttt gttttgtttt ggccacacta ggtttctaga 120  
 aacttccagt tccttcttaa aagtcctttt tgggcattcc ggcctaaatc ccaaaactgt 180  
 ggtctgggta caagagagaa ttagggcagt gagaaaaatt taaaccaccc tgcctctaa 240  
 at 242

<210> 61  
 <211> 623  
 <212> DNA  
 <213> homo sapiens

<400> 61  
 ctgatgtct tctttcacca tccctggca cccgcctata catttattac ttgaaacaga 60  
 ctgaccttta tttggtttag cactgttgt caggtttctg caacatgggg tcacatgcct 120  
 tccaactga cacaagtctc aagctccttt tctcttcttt ttataacttc tagaagcata 180  
 gcttctacca gataaggatc taaccttttc agtggaacac aaaaatggca aagaagtaaa 240  
 gaaagaagag agagaaagaa gaaagaaaga aagaaaagaa agaaagaaag aaagaaagaa 300  
 agaaagaaag aaagaaagaa agagagaaag aaagagagaa agaaagagag aaagaaagag 360  
 agatggagag aggggaaggaa ggaagaaaag aaagagaggg agaagaaaga agacagggaa 420  
 ggaaagggaa gggaaaagag ggaaggggag aggggaggag aagggaaggg gagaggggag 480  
 gacaagggaa gggaggaagg aagaaaggaa ggaaagaagg caggaaggaa ggaaggaagg 540  
 aaggaagaaa ggaaggaagg aaggaaggaa aaataactag ggcctttcac ttttgccttc 600  
 aatagcagag tggccctgga tat 623

<210> 62  
 <211> 372  
 <212> DNA  
 <213> homo sapiens

<400> 62  
 tattggcaga ggggtgagtc agtgtataaa agcaactata tttgtgcaat aaggcaacct 60  
 ctaaacacaa gttactactt catctaatgc cacacacaca cacacacaca cacacacaca 120  
 cacacagatc atctgttcca aggtgtttgc ctttactaag tgatgctatg ttggtccttg 180  
 aggtggtgcc ttcttgaggg ttttcaagca tagctttggc catgcacagt tttcttctta 240  
 tacacactct gaggagcccc gccgtcacgg taatgcacct gcctcacaag ctggtgggca 300  
 gcttaaatga aatacacatt ttgtccagg cccagcacta gctcatcaat gtgagctgg 360  
 gttagcctca cc 372

<210> 63  
 <211> 140  
 <212> DNA  
 <213> homo sapiens

<400> 63  
 cagtagccag gaagctgagg aacacacaca cacacacaca cacacacaca cacacacaca 60  
 aacacacccc ttcttggtc cagttccgca ccacccaca cccccaacac cggaagtaga 120  
 tttctcaata ggcagggtg 140

<210> 64  
 <211> 301  
 <212> DNA

129/203

&lt;213&gt; homo sapiens

&lt;400&gt; 64

```

tttgccagaa tgtcctcaca ccaaatagtg gaccccttct tttgctgatt tatctgctat 60
tgtatagggtg tatgtgtgtg tgggtgtgtg tgtgtgtgtg tgtgttaagg cagggtggtag 120
tatgtgtagg gtagggtttc cccagtcacc tggagccctg agtgccctgt tccctaaact 180
aggccagttt agctgactgg ctctcctttgt gtattgggtcc attctgcac aaagcatct 240
gaattttcat tcaatctctc ttctgaattt tcacttttaa aaacctgacc agtcccttgt 300
g

```

&lt;210&gt; 65

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 65

```

ctctccatg gtagggactg gttctcttag gccctgtat cctcaggccc agcatgcttg 60
ggaaaatgtt tgctaagtct ttgtgactca aaaggaatca cacacacaca cacacacaca 120
cacaaacaca cacacacagt ttttaatat atcagtcata tcagccccct gaggcagctg 180
ctctgttcca gacaaacct gtt

```

&lt;210&gt; 66

&lt;211&gt; 138

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 66

```

gggtacagga gagttgtggt gggcattagt actactcctg ctgctgctgc tgctgctgct 60
gctgtgtcca ctgttagtga cagaagtggg aaaatatatta agttgagttc acattagtgt 120
tcacagttta gcgtgagc

```

&lt;210&gt; 67

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 67

```

ccatgagttc aggagtggtg ttaaataaga tttcccttga agtcgaatga aatcacaaatg 60
caccacacac agggacacac acacacacac acgcacgcac gcacatcaca cacacacaca 120
cacacacaca cacacacaca cacacatata cacacacagt ctccctgggg ccaatctact 180
gccccctgaa cctcaccat cagccaggtg cctggccccg ggtctgtctc ttaggggttac 240
atgctcccg

```

&lt;210&gt; 68

&lt;211&gt; 664

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 68

```

acttatggaa cacctactca gtgccaggta ttgtttgtaga tgccaggagt acagcaggga 60
ataaaacaac atccctgtcc tcgacacaaa cacacaagta aatagagaag gtcagagata 120
aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180
tttgtttcag atgagtgtca gggagcccc ctggaggag gcactgtaag ggcacagaat 240
cgaatgaaag gagtatgtga aggtgcttaa attgtttctg tttgggttgg tgtggtgtga 300
tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg 360
tgtgatgtga tgtggtgtgc ggtgcggtgc ggtgcggtgc ggtgcggtgt ggtgtggtat 420
gggttgaggc tggccttagg agcctgttgg ccttcaggc cagtcctgaa gcccagccca 480

```

130/203

```

gagcaccaga ctctgcagtc agtcagtggg gggccacacat ctcagccaat gcatggcttt 540
gggtggtgac ttcattctccc ctagtgttcc tttccccctc tgcaaaatgg gaatggggat 600
ggctcagaac tcccagcggg agttaggagg aataatgtat aggaagtatg agcagagtgc 660
ctgg                                             664

```

```

<210> 69
<211> 120
<212> DNA
<213> homo sapiens

```

```

<400> 69
tgatgtgctc gttcccatag ccccgctgtg tgtgtgtgcg cgtgtgtgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtt tgggtggggtg ggagggggagg cagaagagga agagaggggca 120

```

```

<210> 70
<211> 139
<212> DNA
<213> homo sapiens

```

```

<400> 70
tgggtgatcag ctcagtgtcc ttggaaaaga gcagaaagtg gtatcacgaa catatcttct 60
cctttgcttc cttctcctca ctcttcacat tcatcatcat catcatcatc aaatatggat 120
ctgtgaggct acctctggg                                             139

```

```

<210> 71
<211> 340
<212> DNA
<213> homo sapiens

```

```

<400> 71
ggaggagaga ccagcattca cattcagtta ttgttgTTTT aaatccatta cgcacatata 60
taggagaaaa tttcagcaac agtcaccctc tgaaccaggt tctcagttc tctccagagg 120
caactaaaaa gctcaattat tagtgtatcc ttttggaat attttatgta tatgacagtg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataattattaa 240
cattggtaaat agtgggtacta aacaacttag ggtgtttttt ttttcattta atagtatatt 300
tttagtatct ttccaggaaa agatacatgg atgtgccaca                      340

```

```

<210> 72
<211> 362
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc feature
<222> 49, 53, 57, 259, 322
<223> n = A,T,C or G

```

```

<400> 72
tcaataaatg attctgggga tgtgtctgtc tgtccatctg tctctctcna ganacanata 60
cacacacaca cacacacaca cacacacaca cacatcctgt tagttctgtt tacctggaga 120
accttgacta acatacccat taaaaccaa atatgtcctt cagggtgtta atgtttgggt 180
gaagaaacac agaagtttaa caattgtatc aggtcgggca cggcctataa tcccagcatt 240
ttgggaggcc acaatgagng gatcacttga gccaggagg tctagaccag cctatgcaac 300
atagtgaagac aaaaaaatga anaaaattag ggggtgtggtg gagcgcacct gtagtcctag 360
ct                                             362

```

131/203

<210> 73  
 <211> 187  
 <212> DNA  
 <213> homo sapiens

<400> 73  
 gagttctatg gaacagcatt tattgaataa taacatttca ggaaaaaata taagctttac 60  
 tgtatattaa aatacatata tacgtttata tattatatat tatattatat tatatatattat 120  
 atatattata tatattataa tttttatata ttatatagat ataaatcaac tacaagatcc 180  
 agttcaa 187

<210> 74  
 <211> 219  
 <212> DNA  
 <213> homo sapiens

<400> 74  
 ttgcctaaga tctaggtggt caaaagaatt tctccaatcc acttcagcct gttattatgt 60  
 atgtattctg ttttaaataa gaaacaagag tcattttctc cagaataata gaaccatagt 120  
 gacacttgaa gtaagtccag tggctctgat atgataataa taataataat aattattatt 180  
 attattatta ttattttgag acgaggtctg tatctgttg 219

<210> 75  
 <211> 302  
 <212> DNA  
 <213> homo sapiens

<400> 75  
 atggagagac acggagttgc ttgaggggtac agtgccctgta gatactcaat aaatatttgt 60  
 ttaattaaga aaattttctgt tattttgtgtg ctcatacata ccatttcagt ctgggtgagta 120  
 ttgtttctttc ctagagttta cttttaatct taagtatttt ccaggtcctt tgttgacttc 180  
 tgttttaaacc acagtacaca cacacacaca cacacacaca acttttgtgt actataatag 240  
 cttccc'caaa attataattt agtcattgtg atgcagatct tcttccaagg cctctacttt 300  
 gg 302

<210> 76  
 <211> 368  
 <212> DNA  
 <213> homo sapiens

<400> 76  
 aaacaaacaa acagaaacac caaaatggat tccagcatct tataagtgct ttctcttatg 60  
 atcgagagta agacaagcat ggctactccc ttctcttcta ttaaattattg tactaggggt 120  
 tctattgaga taaataggca aaaaacaaaa caaaacaaaa caaaaaggca tccagattta 180  
 aaaaaaaaaa gaatctagga ataaagggat tacatctcta cttgcagatg acatgatctt 240  
 atgtatagga aatcctaagg atccactgaa aaactgttag aactaataac atcagtaagt 300  
 ttgcaggatt ataagattaa taaaaaaact cgactgaatt tctgtgcact tgcaataaac 360  
 aacccaaa 368

<210> 77  
 <211> 247  
 <212> DNA  
 <213> homo sapiens

<400> 77  
 tctgcccaca cacttttatgc tttaaaacaa aaggccatgt tgaacttgta gaaccaaagt 60  
 attgctaatt acttggggcg atactagtga tatattatct tacatacaca cacacaaaac 120

$\langle 210 \rangle$	82
$\langle 211 \rangle$	258

133/203

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 82

```

gccttgcgag attgtacctc ttccctttcac ccttctcgct ggccctgtgct tctctctcca 60
tcgtgggtctc ccacgccttg gtttctcctc catcccatc cccatctttc gtgagcccct 120
ccaactctct ccccggtgtt tgtacggtct cctgcgttca cttgatttcc tctcaccac 180
ccccgcccc aacacacagg cacacacaca cacacacaca cgcgcacaca cacgggcctc 240
tcgcactctc cttctcct 258

```

&lt;210&gt; 83

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 83

```

tgactcttgg cctctgtgtg tctctgggtt tctttgtctc cctcctctcc acggtcctct 60
tgtccctttg tottcccttt cttgtttctt gaatctcttt gcctttatgt atctgtcttt 120
ctctctctct ctctctctct ctctctctct ctctctcttc tttccctttc ccctgactcc 180
ctctctccct cttccaggcc cagctccag tagctcctaa ggcaaa 226

```

&lt;210&gt; 84

&lt;211&gt; 215

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 84

```

catttgggat aaatgttgtc tttagttttc aactactttt tctttggctt attctctctc 60
tctccctccc tccctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgtg 120
tgtattcatg ttttcttaat ctatctgaat tgttgtgtcg gttttccatg cgaatttcca 180
gttacctcca cagtattcgt ttcagaatgc ttcct 215

```

&lt;210&gt; 85

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 85

```

ttgcagtttc atgaaccaag tattactgcc tcaacaatta aaaacaacag acaaattatt 60
taaaaaacca tgaggcgagt ggtggctggt ggctgggtggc agggcggggg cagggtggcc 120
tctgtgtctc atgctttctg gttggtctgt ggtctttgca ctgagagcta gggccttgca 180
cattcattca ttcattcatt cattcattca ttctttgaat tcaacattac tatgcaccag 240
gcgctgagaa ggcagcctta gacagatgga aatccttgct ttccgggaga ttccattcta 300
atgggtcatt gattcagtgg cctcttcagt catttgttca tatgcattta ctcgtaacctc 360
tcattgtcca 370

```

&lt;210&gt; 86

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 86

```

aactgaacct gggctgtgtc agtctaagac ttatgcttgg aacctgtaag aagaacaagt 60
gtgcgtgcat gcatgtgtgt gtgtgtgtgt gtgtgtgttt ggagggatag tgaagttttt 120
tctacagct acaaatagaa catgctttcc tatacaattg tactaatcaa tattatttcc 180
ttacattatc tccagccatt tccctataat tagacattca gattatttca aggttggtat 240
tctataaac agtgatgtga tgaatttttt aaagtgggtt cctcacatcc gtctgttctt 300

```

gtaaatgtat ccatcataga actggaccac aaaggttgg 339

<210> 87  
 <211> 150  
 <212> DNA  
 <213> homo sapiens

<400> 87  
 gggagtcttc tttcttcaag tgcttagggg agaaaataag tgagaaaaag agagatagag 60  
 gaaggaagga aggaaggaag gaaggaagga aggaaggaag gaaggaagaa gaagaaaagg 120  
 aaacgaaaag gaaaggaaaag gaagaaaagga 150

<210> 88  
 <211> 331  
 <212> DNA  
 <213> homo sapiens

<400> 88  
 tccatgttat tctctacctg ttggttcctt cctcattgaa aattggtgta tagatggtag 60  
 atagatagat gatagataga taggtagata gatagataga tagatagata gatagataga 120  
 tagatagata gatagatattt tatttttggg ctatctcctt tactaaacag taagctccat 180  
 gaaaatatgg atcatcaactg tottattcac cattatatctc tcagcatatg gtattgtcct 240  
 ggtatagaat agattctcaa taaatgcttg ctaaataaat gcattcatga gtgagtgaat 300  
 gaatgaatat gcgagtggat gagtgtgtgg a 331

<210> 89  
 <211> 370  
 <212> DNA  
 <213> homo sapiens

<400> 89  
 tgcttgaggg caggatctat atgtaattcc tttctggaaa accagggatt gaaacaggat 60  
 ctggcatgca atgggctgga tgggtgaatg gagaaataga tgaatgacag atggatggac 120  
 aaacagatgg aaggaaggat ggatggatag atggatggat ggatggttgg atggatggat 180  
 ggatggatgg atggatggat ggatggatgg atggatggac agatggattg gttggtagat 240  
 gtgtggatag atggatgggt gaacaagcga gtagatggat gagtaaattg ctaaactctg 300  
 tgcttttctt ccagaatcct ggattctgaa gggaggcttt gcagcccttc ctcgtggatc 360  
 acttgctctg 370

<210> 90  
 <211> 251  
 <212> DNA  
 <213> homo sapiens

<400> 90  
 ggctgaatta ctgggcatgt ttctgagaag aaagaacttc tattttaatt atatatctac 60  
 agaaaccaa tttgctgctt acagttttac atgtctgatg attggaagt tttgtttgtt 120  
 tgtttgtttg tttgtttgtt tccacagact agcctctgac tccatatatt tcaaactttg 180  
 ttctcttcc actaccaca tatttctgat gtgagacatt ctagaaaaat ttcattattgc 240  
 aagacggctt c 251

<210> 91  
 <211> 363  
 <212> DNA  
 <213> homo sapiens

<400> 91



135/203

```

ttggcaggat tcagttcctc atgggcacca gacggagagt ctcagcaaat cactagctgg 60
tgactgcagc caccgcagtt ctttatcacg tggttctctc catagggcag ttcacagtgt 120
ggtaacttgc ttcacagag caagccagga agaagaccca gagacagaca gagagagaga 180
gagagagaga gagagagagg aggcctctga aagagagaga gaagagagag aggcaaagag 240
agaatgagaa ctccagaagt cactgtcttt tatagcctaa tcttgaaagt gacattcatc 300
actttcacta cattttcttc cccagcagtg ctcagtgagg ggggattata cacggccatg 360
gat 363

```

```

<210> 92
<211> 203
<212> DNA
<213> homo sapiens

```

```

<400> 92
gcacatttgc agaggtttga ggtcccatca ttagccatgc ttcttggttc ctgcactatg 60
agtatacgta tgtgggctga tggcctcatt cactggatac acacacacac acacacacac 120
acacacacac acacacacac ctcaccaggg acttgggagt atctaaatgt ttgagaatca 180
tagagcaggg agacatccaa cac 203

```

```

<210> 93
<211> 326
<212> DNA
<213> homo sapiens

```

```

<400> 93
gggcacatac agctttcctt gcaggaaaaa aacctgctta actttgttta ttatatatta 60
tttgatctgt gcttcatata ttattcatat attatttgat caagttgctt catgtattat 120
ttgatcaagg aatcatgtgt gtctacagca cctattaaaa ttccctggca ctgaaattct 180
gtagaaaacc atttaggaaa agttgatcta actgtataat tattagtaaa acatatacac 240
acacacatac acacacacac acacacacac acacacacca caagcaaaca aaaaaaaacc 300
accttaatgg tctcctaacc aaggca 326

```

```

<210> 94
<211> 266
<212> DNA
<213> homo sapiens

```

```

<400> 94
gcatgttcgc cacagagatt caattaattt aaataggtag aggacttggg gcagtgccta 60
ggacaacatt acactcaggg atggtgatga tgatgattat aatgatgatg atgatgttga 120
tgatgatgat gttgataatg atgatgatga tgatgatgat gatgatcatg atgataatgg 180
aaaagaagat agaggaggta gaagaggaga caatcatgat gttggaggta gactccaatc 240
ttcagaatca gaagctcagg gttgga 266

```

```

<210> 95
<211> 224
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc feature
<222> 18, 197
<223> n = A,T,C or G

```

```

<400> 95
agcttaatct attatttnag aggcagaaag ttaacttgct tctcctgaaa agaagtgcaa 60
atatatccca aaagtgccat tctttcattc atccactcaa acagatacac acacacacac 120

```

136/203

```

atacacacac acacacacac acaccctttt cacccttgg tagtgtacag tctctgagtt 180
gtaaaaaata gtcattncct tctgcttgaa agactgtatt agct 224

```

```

<210> 96
<211> 328
<212> DNA
<213> homo sapiens

```

```

<400> 96
ccagcatgat cctatgaatc cttataaaaag ggagatggga aaatttcaca cacacacaca 60
cacacacaca cacacacaca cacacacaca cagatagaga cagagagaag aggataaggc 120
aatgtaacca tggaggcaga gatgggagtg ctgtagccac aagctaagga atgctggcag 180
ccacagatgc tgggaagagtt gaagaatggg ttccccctga gggagcacag ccagatgcat 240
gctttgagag ttcagcccag tgctactgac tttagactta tggtttccag aactacaaaa 300
aattaatttc tgtcgtttca aaccatcc 328

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<210> 97
<211> 257
<212> DNA
<213> homo sapiens

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<400> 97
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acctctctct ctctctctct ctctctctct ctctctctct tttccccctc 180
ctcttcttgg agacatgatg aaatttcctg aaacaaaaac tcgcagcccg ttcaataaaa 240
tgctttcgcc tttggtg 257

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<210> 98
<211> 223
<212> DNA
<213> homo sapiens

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<400> 98
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taccaaaaag ggaaaaaaag ggaaaagaag aaacttattg ttgaacgaac acacacacac 120
acacacacac acaaagagcc tggcttaatt tagggataaa gcaaagaagt caatacccc 180
acatcaacta ttgaaaccta agctattgct ggagttgaca gcg 223

```

```

<210> 99
<211> 364
<212> DNA
<213> homo sapiens

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<220>
<221> misc feature
<222> 7, 61, 86, 339
<223> n = A,T,C or G

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<400> 99
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tttacattat tatcttcaga tttagatttg ttttgctttt aatcctgtct tcatgaagg 180
gaaagccatg tgtaccagca tggttgataa accaccaaat cgtgaaactt tgcttgctcc 240
ccaaaccccc aaccacacac acatacacac acacacacac acatacacac acacacacac 300
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ctag 364

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137/203

<210> 100  
 <211> 132  
 <212> DNA  
 <213> homo sapiens

<400> 100  
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 agcagagtgg cc 132

<210> 101  
 <211> 372  
 <212> DNA  
 <213> homo sapiens

<400> 101  
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 cacacgagtc atctgttcca aggctgttgc ctttactaag tgatgctatg ttggtccttg 180  
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 tacacactct gaggagcccc gccgtcacgg taatgcacct gcctcacaag ctgggtgggca 300  
 gcttaaatga aatacacatt ttgctccagg cccagcacta gctcatcaat gtgagctggg 360  
 gttagcctca cc 372

<210> 102  
 <211> 140  
 <212> DNA  
 <213> homo sapiens

<400> 102  
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 aacacacccc ttcttggtc cagttccgca ccaccccaca cccccaacac cggaagtaga 120  
 tttctcaata ggcaggggtg 140

<210> 103  
 <211> 301  
 <212> DNA  
 <213> homo sapiens

<400> 103  
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 tatgtgtagg gtagggtttc ccagtcacc tggagccctg agtgccctgt tccctaaact 180  
 aggccagttt agctgactgg ctctctttgt gtattgggtcc attctgcac aaagcatct 240  
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 g 301

<210> 104  
 <211> 101  
 <212> DNA  
 <213> homo sapiens

<400> 104  
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<210> 105

138/203

<211> 203  
 <212> DNA  
 <213> homo sapiens

<400> 105  
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 cacaacacac cacacacagt ttttaatat atcagtcata tcagcccoct gaggcagctg 180  
 ctctgttcca gacaaaccct gtt 203

<210> 106  
 <211> 164  
 <212> DNA  
 <213> homo sapiens

<400> 106  
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 cttttttttt ttttcacatt gagccatctt cttacagctg aggttttcat ataaaaaagc 120  
 aagttgctgg tttctcttta aaagtagggc aatctggcag ttct 164

<210> 107  
 <211> 138  
 <212> DNA  
 <213> homo sapiens

<400> 107  
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 gctgtgtcca ctgttagtga cagaagtggg aaaatatatta agttgagttc acattagttg 120  
 tcccagttta gcgtgagc 138

<210> 108  
 <211> 664  
 <212> DNA  
 <213> homo sapiens

<400> 108  
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 aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180  
 tttgtttcag atgagtgtca gggaaagccc cttggaggag gcactgtaag ggcacagaat 240  
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<210> 109  
 <211> 120  
 <212> DNA  
 <213> homo sapiens

<400> 109  
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139/203

<210> 110  
 <211> 139  
 <212> DNA  
 <213> homo sapiens

<400> 110  
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 ctgtgaggct acctctggg 139

<210> 111  
 <211> 340  
 <212> DNA  
 <213> homo sapiens

<400> 111  
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 caactaaaat gctcaattat tagtgtatcc ttttggaat attttatgta tatgacagtg 180  
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataattattaa 240  
 catttgtaat agtggtaacta aacaacttag ggtgtttttt ttttcattta atagtatat 300  
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<210> 112  
 <211> 362  
 <212> DNA  
 <213> homo sapiens

<220>  
 <221> misc feature  
 <222> 49, 53, 57, 259, 322  
 <223> n = A,T,C or G

<400> 112  
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 accttgacta acatacccat taaaacccaa atatgtcctt caggggtgta atgtttgggt 180  
 gaagaaacac agaagtttaa caattgtatc aggcctggga cggcctataa tcccagcatt 240  
 ttggggaggcc acaatgagng gatcacttga gccagaggat tctagaccag cctatgcaac 300  
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 ct 362

<210> 113  
 <211> 187  
 <212> DNA  
 <213> homo sapiens

<400> 113  
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 atatattata tatattataa tttttatata ttatatagat ataaatcaac tacaagatcc 180  
 agttcaa 187

<210> 114  
 <211> 2002  
 <212> DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 114

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2002

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&lt;210&gt; 115

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 115

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141/203

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2002

```

&lt;210&gt; 116

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 116

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142/203

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 <212> DNA  
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tcaaatatta	gacctgcgta	ttcctaaaa	ccctatggct	gtttgcaata	acttgaggcc	1380
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tttatcaagg	caaccatcgt	gattcatacc	tcaaagcacg	ctttgaattc	tactcctata	1500
ggctccaaaa	cccttattat	ccagggttcag	tattgctcta	aactagggtga	ggctcctgaac	1560
agaccagat	ttcaagcata	ttcagggtgga	tttgtttaac	agagtgtggc	tactggaaca	1620
tctggagccc	aaagtacaca	ggaggcagga	gagagcctac	tttctgaag	agagggacgg	1680
gccaactgtc	cgacaatgag	gaggtgggca	ttctttcctt	tgtaaaacaa	aaagtatctg	1740
agacaggggt	cagtcaattc	agaagcttat	tttgccaaac	ttatggacca	taacccatga	1800
cacagcctca	agaggctctg	agaacatgtg	cccagggtgg	ctgggttaca	tcttggtttt	1860
acatgtttga	gggagactga	agacatcagt	caatacatgt	gaggcataca	ttgggtgggt	1920
ccagaaaggc	gggacaactt	cagagggtgg	gagtggcttt	taggtcatgg	gtggattcaa	1980
agattttctg	gttggcaatt	gg				2002

<210> 118  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 118						
aaaagtagca	tcgagaatca	atttgcattc	cagaattggg	atccctgccc	taatctctct	60
actttatgcg	gccgtgtcct	gcttttcatg	actctagaaa	gcagaggaga	aagtggatgt	120
aagatataaa	ttagtctgtc	ttgtagggtc	ttctcttggt	ccattctctg	gaccagcca	180
tgtccatacc	tgtggccctt	ggtatccaat	ttaaggcagt	tcttctcttt	ccatgatcac	240

143/203

```

acagtaaagg agccccgta tacagtgtc caggactgag tccagttttt agtgtagcgt 300
gcaacaagag cagaaaaggc agagttggga aggacatgtc aacgggcagc aatgaggtgg 360
tataaagacc ctgggcattt ggaggcaaca gaggagaaa ggtctgtctc aaggaccaac 420
ttggtctctt cctatctctg ccctggcagc accagcagct gcacattggc ccttcttacc 480
acttccatgg caaaaccaag gttttctcta cctcgcttag ccggcccttg cagacttgct 540
gacacagctg agtgcgaggt gcatctagac cccaacatga ggcgcccttc tctcaaaaaca 600
aatgagcctt cgaaactcca gcaaacagtg ctaatgaatt gccctcggct tcttaggcat 660
cattttctcg taattataat gggaagaaga catggagtcc cactgagaac gtggagctag 720
cctgccccta gagcaaggca aaatccctct ctgaggacca cactcaagca gaactgattt 780
ttctaagact tagagaagaa acaaaatctg atttaattct taggaaattg ctttttttaa 840
cccacctgtg taagcctgta tttaaatgct aatatatttg gcctgccggg atgccacatt 900
tattttcttc cttagcagca acaaaaatca tttatttatg agaattctag ctccctacctg 960
ctctcctgag ttcctcatct tcatttccat ctaccagctg ga 1002

```

<210> 119  
 <211> 316  
 <212> DNA  
 <213> homo sapiens

<220>  
 <221> misc\_feature  
 <222> 284  
 <223> n = A,T,C or G

```

<400> 119
gaggggtttt taagattgtg tgttctgaat ggctgtctc tgactggaac ccaactccgt 60
ccccagaccc acttccatct ttttctgtga gggggacaca ctctttcaac ttttccaaa 120
tggtcatctac catggctttt ctgattaaaa gcaaacgaaa cacacccttc ctataatcaa 180
aaatttagaa aagcagcaaa aataaaaagg ggataaggaa gaaaacagaa attaaccacc 240
atcccagccg ctaaaatttt gatgagttct catgtgtttc cttncagctg attgttgttt 300
ggcatacatt tattaa 316

```

<210> 120  
 <211> 413  
 <212> DNA  
 <213> homo sapiens

<220>  
 <221> misc\_feature  
 <222> 177  
 <223> n = A,T,C or G

```

<400> 120
cacttccatc tttttctgtg agggggacac actctttcaa cttttccaaa atggcatcta 60
ccatggcttt tctgattaaa agcaaacgaa acacaccctt cctataatca aaaatttaga 120
aaagcagcaa aaataaaaag gggataagga agaaaacaga aattaaccac catcccncg 180
ctaaaatttt gatgagttct catgtgtttc cttagcagct gattgttgtt tggcatacat 240
ttattaatat tgggaattaaa aatatatatg gcactttata tcttagaaaa tagtaatact 300
gtaaatgtgt tctagaaatg ggagctgctg ttgctcttat tagagaattc aaacaaagaa 360
gggaggctcg ctggggacag cttctggggg aggatgggta ccgctttgag aca 413

```

<210> 121  
 <211> 414  
 <212> DNA  
 <213> homo sapiens

<400> 121

144/203

```

aggtatgagt cagttgagtg gggacaggta atagagagct agaactggct ggccttatgg 60
cctccaaggc attgggggagc cactgtacat tcttgagcag gcaatgactt cacaaaagga 120
tttctcaaag gttagtcctg caacagaaga cagcgtggat tggactggaa gagtgggagg 180
gcaggtggag aaggcattgg tctgcaagtg gggagcagcc ctggggggccc agccagtccc 240
ctgtgccctg acaagtggta tggcatggat ggatggctct acttctgggc cgccaggatg 300
gacagggtact ggttgctctt caccatggcg ataatgagga ggccaccggt cagcaggaag 360
gtggggccaga agagggagaa gaggagggcc tggggcccgt agaggcgctg gaat 414

```

```

<210> 122
<211> 346
<212> DNA
<213> homo sapiens

```

```

<400> 122
ccccatccct ccagttcagt acctgctggt tctgggtccg agtgtcctcc gtgtggtaca 60
gcacagccca cctgccggca gctgacacgt tgaccacag gcatgggtac tggggcacct 120
tcttgccctt cagctctctc ctggtooctg atgttgggtct caatcagggtg gcacttggat 180
tcttggttcc acacgctgag gagaccacac acatgcacac atacacatct cagaactggg 240
tgacacacag aacacccatt tgaacccatt atcccctggg agcctctaga gggatccagg 300
actgggctcc tcattctgtc ttcagcatcc agcaataaag gcacat 346

```

```

<210> 123
<211> 484
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 148
<223> n = A,T,C or G

```

```

<400> 123
ttccctgcac ttgaacccta gaacctaaaga atgagcatcg tcttgacctt gctgccttga 60
atgaggggtca aggagagggg tgagtagaag gccagggttc cttacagatg ccagaccctt 120
aggagaggggt tgggggggtgg gcaggccngg agagctcagt accttttctg gttagaggggc 180
agcacagtcg tgaccaggat gtagtaggtg atgacggcac acaccacat ggttacaccc 240
agagcaaagg gctcgtgtct ctccccgctt ctggggccatc accagcttct tcaccatatt 300
cactggggggc agtgatcatt tctaggtcca cagaagcaaa cagaagttag atcagcccag 360
ttcacagggtg atccacagaa agagaggaca ggtgagaggg gaaggtactc aactattaat 420
atcactcttg tttatatattg gagctttgca acttccagaa gtcttgcttt ttggacccca 480
tgta 484

```

```

<210> 124
<211> 182
<212> DNA
<213> homo sapiens

```

```

<400> 124
agaggaaggg agtcctcctg cctgcctccc tccctgcccc gtggcagggt gctttcccca 60
tgtctccctc cagcccggtc ttcagagaaa tcaacttcca agtgctttca ggcccgggtac 120
tcacagtctt cccggcgctc tgtgggtctt gagcagcaga cagtttcttt ctgcctggac 180
cc 182

```

```

<210> 125
<211> 146
<212> DNA
<213> homo sapiens

```

145/203

<400> 125  
 agccccgtct tcagagaaat cacttcccaa gtgctttcag gcccggtact cacagtcttc 60  
 ccgggcgtcc tgtgggtctt gaggcagcaga cagttttctt ctgcctggac ccccgcccc 120  
 accccaaaag aggccacaga gcttca 146

<210> 126  
 <211> 146  
 <212> DNA  
 <213> homo sapiens

<400> 126  
 agccccgtct tcagagaaat cacttcccaa gtgctttcag gcccggtact cacagtcttc 60  
 ccgggcgtcc tgtgggtctt gaggcagcaga aggtttctt ctgcctggac ccccgcccc 120  
 accccaaaag aggccacaga gcttca 146

<210> 127  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 127  
 cttatctcca cccttcaactt gacccaagaa tcaaagaacc tgaaactgag acttggaggc 60  
 ttgaagtcac tgggtgcaacc ctaggggcca gaactagatt cgaagctggc ccttccagat 120  
 ggcacagctt ggtctgtctc tgatgacctt ggggctgctc tgagacatta aaaatcacct 180  
 cgatcatata gtaagctgcc acctgaggct ctggagggtca ccctgagttt cccagcccc 240  
 cagggagggtg ggtgcagcct ggccctccct gctgagcgag ctcaccacct tcctccctcc 300  
 tgccctccagc aggcgcgaaa tgaaggcagc cactcaggcc tccttgacac actctcaggc 360  
 ggtgagtgcc cttctccacc ctttctctaa ttgaatctta ttaacaggag actacagtgt 420  
 ctgtttaatg ggcaccatag caccagaggg tctaagacca gcttcagacc ttgcaggcag 480  
 attgacagag ggatgtagga ctctggaatt caatctcaga agagcaattt tccaaggatg 540  
 atcctctgtc cactcagaag caggaaaagt cctcctgggg ctaatccaga aatgccaggc 600  
 cccctcctg cttccctggg ggagagatac acagtgcac aggtgccat ttatgagtat 660  
 aaccgaaggg ctccttgctc gtgatactct gaataagtta ttaagggcta catattattt 720  
 ggaaatcata aacaaacttt agcattcttc ccaagggaag gtgggaacaa acagggaagg 780  
 ggggccgtgg ggtcttctgc tccccctaaa tgagccacaa ccaaaaggca ttgacaagcc 840  
 ctgtcctcga gggtttgtgg gtgaaaaccc aggtcctttg ctggctgcgg ggttgtgtgt 900  
 gacagatggc tacaggtgga gggcaagaaa ataacaatgc tgcaacaata aatattgacg 960  
 gtttgcatta gtacgggggtg tcagagatca caaaatatct tc 1002

<210> 128  
 <211> 2002  
 <212> DNA  
 <213> homo sapiens

<400> 128  
 tacttttcag cctgaggtct cctcctcacc actaacaccc ttccctccaa tcaaactgat 60  
 ccattgtacc tacaaaaagc ccgtcccacc tcttagcctt tgttcacact gggttctctg 120  
 ctggatcacc atttccaggt gtccctcaag actactcagc agcagctatc 180  
 catacaagtt cctcaaccct ggctttcttg cctcaagta accagttcat cctccccagt 240  
 catatagccc tctattttaca tttcttttct ggaagctatc atttttcacg tgccatttga 300  
 gtgagtgctc tcgctaagac gatattttct ttgagggcag taacctttct tatatgtctc 360  
 tgtatcccat gaacttagca aaaaacaagg gacagaacag gtgcaaagtc tacgtgggta 420  
 gtgaatttaa cagatcttcc taacgtgtaa acgtcggtgt ccagggtgaat ggaagaagtg 480  
 agctgagata gaggggacag acagagtcag tgtccagtg cagacctctga aatggaaaaa 540  
 catggccagt ccttaggagg ctgcagaggc caagacccca gtgagggttg ggggttccac 600  
 agcagaggag gagctgtgga ccacagcagg accccgatgc catcagcagg ggagggaagta 660  
 atcagagagg tggaggaagg aagccaaggg aagtcagta aacaccaaatt attccctccc 720

```

gggtccaatgc tgtgacotgc ataagccacc actccccag tctagactct acccatggaa 780
gaaggaagaa gatagaactc tggatttgaa tataattcta aaataaccaa atttatctga 840
aaatgactag gctgagtttt ctgcttcaac cagaaatgga gcttggagtc agaaattatg 900
tgaaattata gaagagaaaag tcaccatctt ccatctctga gtogtatgat catttttagac 960
ataaaattgt gcacttacga tgtaccaagt gcttaatata ctgtgatctc atttcaccag 1020
ggaaactgta taattcattg ctttaactga caaaattctg caactgaaga aggtgctggt 1080
aataattgca ttgggacgca ggccctgagca ggccatgatt tgtggctgtc ctacatctga 1140
ccctcacagt atccatggga gaaggcagca tgtttatgcc ccctgacagc tggggaaacc 1200
aacacttaaa gtgattaagt cacaagtcca aaataaatga cagagctgca gttcaagccc 1260
aggtggtcat ttaccaaagg ccatgctctt ttcaactttg atgggactgt gaccgctggc 1320
tctaccacgc ttcccagtgc gacccttccc cgccactgt ttctcttctc tggccaacgg 1380
aaacacaatg agaccacata tgtaacatta catTTTTTca tagccacatt gaaaagaaaa 1440
aggaaccagg taaaatccat tttaatatga tattttatTT aacccaatac agttgagggt 1500
tgaacaacac aggtttgaac tgtgtgggtc cgcttacaca tggcttttgt tcagtctctg 1560
ccacccctga gacagcaggg ccagccctc ctcttccgcc tctctctcag cccactctac 1620
atgaaaacaa agaggatgat gatctttttg atgactccact ttcaacttaat aaatagcaaa 1680
tatatgttct cttcttttatg atttctogta ataacatttt cttttctcta gctcatttta 1740
ctgtaagaat acagcatatt ccagctact caggaagctg aggcaggaga atcacttgaa 1800
cctgggaggc cgagtttgca gtgagccaaa atcgcaacct tgcactccag cctgggcaac 1860
aagagcgaaa ctccaactca aaaaaaaaaa aaataaaaag aatacagcgt ataatgcatg 1920
taacatataa aatatgtgtt aatcaactgt ctatgttatg ggtaagtctt ccagtcaaca 1980
gcaggctatt aggagttaaag tt                                     2002

```

<210> 129  
 <211> 1121  
 <212> DNA  
 <213> homo sapiens

```

<400> 129
cgctcagcag ccattaaaag gatatoatcc agtcacttag tttctcaatt taactttaaa 60
ggaaagtgtc cttatttagag aagtggcctc tatttcaatg taatgggtct tgtcacatct 120
tccaatgtgc tggcttagtg ctgaaggatg gggaaaggca gttttcacat attgcagcca 180
ccataccacc aaagaaaaca ggtgcacttc caggcatcat ttagcggggt accacgattc 240
ctggttccag tttccttttt agaaaatctg aaagtaactt tggggcatac cttttaagga 300
gtactccaac acgactagtg gacagacct aaattaattg ccaatcagct ctgccttctg 360
gtattttacac ctttatgtaa taacctccac ttgaaggtag atgagatctg tgacttgctt 420
ctaaccagtg gaatatggcg gaggtgggtg gacgttactc ctgtgattac attacatcat 480
gtggctcctt tatgatggaa gattcatgct agagattctc cttgctgaat tgacaaaagta 540
tgtaacctat atgaagactt ccacgtggca aggagctgtg ggaagcccag gtgctgagac 600
tggcatccag caaacaccca gcaagaaaca gacgtccttg gttcta'caca tacaggaaat 660
gaattctgcc aacatcctga gtaaggctgg aactagattc tccccaagtt gagcctgaca 720
agtaaaatac agaccagcca acacottgat tgcagtcttg tgagacctgg ggaaaaggac 780
acagctgaac cgtgtccatt cttctgaacc acagaaactg tcacatcata aaggatatgt 840
agttgttaca cagtttagaa aactattaca gctgctcaag aaggtttagct agctccagat 900
ttcaatccat tcacaggaaa gcaagcttta ttcctagaag aataattcat gctttgcaaa 960
aagaggaaaa cgtcctgcag ttttagaagg tcttttcttt ctcaacacac ccaaatttct 1020
ttaaaatcct caagaagtgc atttgttttc atggttgact cgaagaagtg agtataatta 1080
actcacaaaa ggtgggagga agggacaaat taaattttgg t                                     1121

```

<210> 130  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 130
cactcaaagg gctggggacc cttgtccctc ccatgtgcat ccatctctcc tatctctgag 60
tccccagtga actgctgcct ccctagagaa acagtgctag aagtcagtgg caagagcage 120

```

147/203

```

aggaggactt ggagctacat gcagagtgtg agctccggag tcagaccagc tgagttcaag 180
gccagctcca ccatctattc actgtgactt caggaagggt gcttaacctc tctgtgcctt 240
agctgcctca tctataaaac aggaacaat gagagtcttt ccttatgggg ctattgaaat 300
gattaagtga gatcaggcat gtgatggcac acagtaagaa ctccataaac agaggtcacc 360
actgctaatt caattattct atcaoctcag gagactaaag caggggagga aacaccattg 420
actcctggac atttacccaa ggagattatg gatccatgtt ttgcacacac tttagaaaga 480
caaggaattc taaccacagc agtctgtctc cactgcccc gtcatctcag tctcaccctg 540
ccacctcaa cctcaccact gtggcccgga aatgcggttg ccagggcca ctctcaccct 600
acctcagccc tgctctgtct tccacctga cctttaccct cctagtctga tctagacccc 720
cccagctcca cctgatttcc tccacctga cctttaccct cctagtctga tctagacccc 720
tgatcttgcc gagtatctag gactttggtg cctttgacct tcagcagcag aggtagagag 780
ggatctcggt gaagtctggg atgttatagt gacttggtta tctaagtgcc ctgagactgt 840
gagttcccta atgcaggag catcaacctc tgcagagagc ccagagccc tgctcaggtg 900
tgatgaacag gaggcactca cttgatgccc tcacaaagtt gtgagtgaat gaatgaatga 960
gtgaatgaat gattgaatga agattagtga ttatgttaat ga 1002

```

<210> 131  
 <211> 895  
 <212> DNA  
 <213> homo sapiens

```

<400> 131
ggtggggggg gagaggggag gggaggagag gggaggggag tgggggagaa ggggagaaaa 60
gcgcagctgg ctctcact ctctttctt tctcaccat ccttacctg gccaggggca 120
ggaggaggat tggcagagta gaggcagggt cttctgtctt agctgggcct gttggtgact 180
ttctgttggc caacatgggc tgactggaat gttctccagc atggcacatg gtcattccaga 240
tgcaggctct tccctggggc actatagcag agagggtctt cttccagtct attgcagatg 300
gatgcccctg tgagctgagt ttgatgaac atcccatgtc ccagccacc ccattcagag 360
cctctttcta ctctggtcct ctggtcccag cagcagccct ctgggtactg aggggagggc 420
atctcaccca agccccctaa acctgtctac cttcttcaga gccacgtgg ccgcaggaaa 480
gtcacaaacc cttgtgtctc cacagggcac acgtgtgcac acgtgtgcag ctaccttctc 540
tctagttggt acctgaggct gcctcctgga tttccagtc tctgtgttcc cagacaacct 600
ccaagccca agaatacaag agctctgtca ccaagcatcg ggctgtggc tgcactacac 660
gtctgcagct caggaccct ggctgcggcg taagctacca gcatccccct ctcatgggca 720
ccctcatctc cggctcccca tcgctgggct gtgacctgcg ggggcgcccc tctatggaag 780
ggaaggagaa aaattcacag tgctatctac tctctgaat gcatccac caatttctt 840
ggaaatttct agctttcact gacatatctg ggatggggcg gtggtcaca aatca 895

```

<210> 132  
 <211> 735  
 <212> DNA  
 <213> homo sapiens

```

<400> 132
ctggctgggg gacctgggt cagggtgcc acccctggc tctgtgcctt cacctgtgta 60
acgaatgggg cactcacagc cctctcaag tggctcctgg gatgaagtga gaagggtgaca 120
tatacaagtg agttatacac gttcctgttc tgtcactcac cagtgtcac tgggtgggtc 180
actgaactcc cctcagcgtt tctttctcca tctgtaaacc accagtgaac acctttccca 240
gatagtgtg acccgaagca ggaaccagt cccctctgcc ctgagtaagt ctgccagcag 300
agggagcccc atagagggtc ttgggaaatg aagccaacag agtcaagagg gtcagatgat 360
gagggaactt aagtgcacc ttcattccat tctttctgca aatattcacc acacacctac 420
gtgacctcag gctctgtgtc aggtcctggg gatgtaattg tgtccatgaa gaaacaaggt 480
cctgcctc atagagtggc ctgacatatg ccagggcag tcagcagccg agtgcgggag 540
actcttgagc agagattgag tgtgttgata tctgtaggca tcagcctggc tttgctgagt 600
gagctatatc agagtggagg aagccagagg caaagtccag actccactga tcttgattg 660
aggggagaag gggcttggcg gaagagcagc ctgagcacct gcatctcact ccaactggtg 720
ctgatttgtt cccat 735

```

<210> 133  
 <211> 899  
 <212> DNA  
 <213> homo sapiens

<400> 133  
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 cttctagaca aagaaggtaa aaattgaaac atgtcaatgg atatctaaat atcattactc 120  
 actggcttta tttgcaaatg gctttccatt gacaacagtt acattttggt caaagcaaca 180  
 aatgattggc gctgacaatc cacaggaaca tgggtgcagtc attaatgaat gtgctcatta 240  
 ttctctccctg ccgggaggca tgcactcccg ttctccagcc tgttttaagc agacagacct 300  
 acatctgcac ctgtcagctt ggaaccctag taggggaggg ggatgctgat gtgatggaga 360  
 atgaagaatg ggccctgcag gctgacattt tgggagagta ggttctgaaa ttatcccaa 420  
 aggacatgga atcctggaag cagggttcaa gatcctocca aaattgatct cccaggatgc 480  
 ttggaatgat tgttctctgag ggttttgtaa aatgccaggg gaaaaccagg aagcttctct 540  
 ccagttgtct tgctctcttc ctctccagtc tccatggagc tgactttgag aattaactcc 600  
 tgagggacag agaccctggg atggagagcc agccctgctg gattccacaa ggtgctgctt 660  
 aaagcacaac acctcttccc aatgacaggt tctgaaagaa ggcctttagt ctagatgcac 720  
 agagggtttt gttttgtttt ttttttttta acctttcagc atctgtctaa aattgctctg 780  
 ggctgggtac agtggctccc acctgtaatc ccaacacttt gagagctgag gcaggaggat 840  
 cgcttgagcc caggcgttct agaccagcct gggcaatata gtgagatctc tatgtctag 899

<210> 134  
 <211> 445  
 <212> DNA  
 <213> homo sapiens

<400> 134  
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 ccatgggctt agctggacta aaatgctgct gcagtggtga gggcacgtga gagtccctaa 120  
 tgtacatggc cttgtctcct gtctgacac atcttttagg gctgctgctt tctctagtgc 180  
 tggaaatctag ataattcctt tcccagccgt ttgtttcttc aatcttgaa aatatctgga 240  
 tgaatgtaac actgtcacac acagaacaga attatgactt acgtcacatt ctatgtcgtg 300  
 attttgtgga cttttaataa ttgcattaca tttgtgacca ttaatttcca ccatcgccct 360  
 gctcctgaga atctgtaagg gacatttgac actcctctcc ccacccacct caacatttgt 420  
 gctgacctga aggtcacatt aaaaa 445

<210> 135  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 135  
 gcaactttcc ctggcctgca ggaactcagg gactcagggg actaataaca acagtgtatg 60  
 agcttcoggg cacactgctt cccagtggca gccctgttac ttagggcttt gtatgtatta 120  
 attcatttac tccaattccc acaataaacc tatagggtag ggttttatta ttgattacct 180  
 ttttacagaa gaggagagta aggcaaagag agatagagta gttttccaa ggtcaaagag 240  
 cacataaatg ataaaggatg gatttgaatg taggcagaat gaccctcaat acagactgtt 300  
 cctacagtc acgtctcag ccactagacc atacggccac tgggatgata gacagaccac 360  
 tgcagccatg gataaggcaa aaacagggtt ggctgtgttg atctgtgtct ctcagagctc 420  
 cattcttctt caagggggca ccttgcaaaa aaaaacaaaa aaatggggca gggtagggaa 480  
 ctgaaggcag gagctcttca ctagagcata gccacatcct ccaggcagac aagaggacgc 540  
 aggaggcacc attctgtgag agtatcacag tctgacccaa agacacagct tcacactgtc 600  
 tgatggcttg atggttaatg tcaactctgc ttttccctt ctcaggactt tgtaaccgct 660  
 ctgtcgattt tattgagagg aactgtccac gagaaactaa ggtggacatt taatttgtat 720  
 gacatcaaca aggacggata cataaacaaa gaggtaagtg agctggggcc aggggtgtga 780  
 gagggtccca gtgaaggtaa ctaacccaac agaaaacagc cccaggcatg aggatagcac 840



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```

tgtctgaatg aggcaggctc tgctttgggg ctaacagagc tgggccctgg caaaataaag 900
aaggcctccc tcattgccct accctgccct gttcccaagc gccagaaaag gattaaacag 960
attcattctc actgggtcac ctagattcag tagatattac ac 1002

```

```

<210> 136
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 136
tagggctttg tatgtattaa ttcattttact ccaattccca caataaccct atagggtagg 60
gttttattat tgattacctt ttacagaag aggagagtaa ggcaaagaga gatagagtag 120
ttttcccaag gtcaaagagc acataaatga taaaggatgg atttgaatgt aggcagaatg 180
accctcaata cagactgttc ctacagtcca cgtcctcagc cactagacca tacggccact 240
gggatgatag acagaccact gcagccatgg ataaggcaaa aacagggctg gctgtgttga 300
tctgtgtctc tcagagctcc attcttcctc aagggggcac cttgcaaaaa aaaacaaaaa 360
aatggggcag ggtagggaac tgaaggcagg agctcttcac agagcatagc cacatcctcc 420
aggcagacaa gaggacgcag gaggcaccat tctgtgagag tatcacagtc tgacccaaag 480
acacagcttc acactgtctg attggcttga tggttaatgt cactctgcct tttccccttc 540
tcaggacttt gtaaccgctc tgcgattttt attgagagga actgtccacg agaaactaag 600
gtggacattt aatttgtatg acatcaacaa ggacggatac ataaacaaag aggtaagtga 660
gctggggcca ggggtgtgag agggctccag tgaaggtaac taaccaacaa gaaaacagcc 720
ccaggcatga ggatagcact gtctgaatga ggcaggctct gctttggggc taacagagct 780
ggtccttggc aaaataaaga aggcctccct cattgcccta cctgccttg tcccaagcg 840
cccagaaagg attaaacaga ttcattctca ctgggtcacc tagattcagt agatattaca 900
cagtggataa aaatgacttg tttcagtggtg aagagttact cttccctagg gaacctgcat 960
ttgggaaggt taggagccac aagtcaaagc taaaagttga aa 1002

```

```

<210> 137
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 137
ttgaaagaga ggcgtttggg gggttttctt actgtatgtc tctattgcat gttctgtatt 60
ttacattttt ctattatttc ttctctgagg tatagtattg aatgtagaaa aatcctcaaa 120
tgttcggtat taagcaatac acttctaatt catggttcag agaagaaaat atctcgaata 180
aaaataaaat aaaaatatga cttatcaaaa tttgtaggat ctaaagcagt attccaggaa 240
tgcaagggtg gtttaacatt caataattgg tcagtgtaat taatcacatt aatagaataa 300
aaagagaaaa aatataatca tttcagtgga tgtaattggt cagagcttct taaaagaagc 360
aactcactat tttactagat gatttggttc ttctgaattc ctctttaagg ctacaggtgg 420
tgcttcttac tttgaactga tcactttota ggtccccacc cttacttctt gtttttcata 480
cccttgtaga gttttctcca ctataggaaa cccatgcttg acatttgctc accagagtta 540
cagagctctc agggaggaga ctacagagttc taacctctct gccctccttt tttcccagga 600
cgacaacatc atgaggtctc tccagctggt tcaaaatgtc atgtaactgg tgacactcag 660
ccattcagct ctacagagaca ttgtactaaa caaccacctt aacaccctga tctgcccttg 720
ttctgatttt acacaccaac tcttgggaca gaaacacctt ttacactttg gaagaattct 780
ctgctgaaga ctttctatgg aaccagcat catgtggctc agtctctgat tgccaactct 840
tctcctttct tcttcttgag agagacaaga tgaaatttga gtttggtttg gaagcatgct 900
catctctctc cactgctgcc ctatggaagg tccctctgct taagcttaaa cagtagtgca 960
caaaatatgc tgcttacgtg cccccagccc actgcctcca ag 1002

```

```

<210> 138
<211> 583
<212> DNA
<213> homo sapiens

```

&lt;400&gt; 138

```

ttttttttcc ccaatcatgc tgtattctta gcgtaatttt aaaatactta aaacaagatc 60
atgagaaaaat aaatgccagc attctagcac caaaattcag aagggggggc tatgagaatg 120
aggggcgggg agaagccttc ctgagagttt ctaagaggca tggaggcagt ggggtagtg 180
attagctctg ggggaagaag aggctactgg ctggaaaagg gcatgaggta ggggttgtaa 240
tcacctactt gttttatctg agtgctggtc acacagatgt gttcacttta ggaaaatgta 300
ttgagattac acttgtgatt tctgcatttt tacatacgca cattaactca gtcataatgct 360
gataaatggt taacaatggg ttgctggag aaaaaagggt ccccggtatt tgtaatgtct 420
gcccatttcc gtggtgtaaa tactcccttc acaactgatt tcaagcttcc catgcaactgt 480
aactgaagac agagttggga agatacgtgc agtagcaca cattaatatca tatttccacc 540
atatacacac aataggtgta aataacaccc agagcataga aaa 583

```

&lt;210&gt; 139

&lt;211&gt; 621

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 139

```

ggttggcagc ttttaataac ttagaaatgg ctgggggtgg gggggaggaa gtactgaatc 60
atttactcat tcagcaaata accagggaat acctactcta cactgggcac tgatggagat 120
actagacttg ggcaaaagcc gcgtcatctg gttgtgttca agctgaacat tcccttgacc 180
cagtcactga tggagatata gacaggcaaa agccacgtca tctggctgtg ttcaagctga 240
acagtccctt gaccagggc ccattgacagg gcagagggca tattattatc cccattttac 300
aaaggaaaga gctgtcagac acagtgtcac acaggaagg agacgataat gtcaatatcc 360
ctcatcttag tataaagttg tccttaaaaa ctctccatta tttattaatt tattgactca 420
cttattcatg ttttctgcac agtgatactt atcctgcacg agactctcac accagtgtct 480
tgggtgtaag aacaccccaa ggattgtgtt cctttttctc gaagagtctg tgggtctaagg 540
ggattcaatg ggggtccactt tccaaaccaa gacagcaaag gaacactagg agagaagtat 600
tctgtgcaga gattcagtta t 621

```

&lt;210&gt; 140

&lt;211&gt; 538

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 140

```

ggattaacag gcatgcacca ccgcacctgg ctaatttttg tatttttagt agagatgggtg 60
tttcaccatg ttggccagag atgggtcatga tctcttgacc ttgggttcta cccacctcag 120
cctcccaaag tgctgagatt acagggtgtga gccgctgcac ccgggcaact ggtttccttt 180
tactgccact ttcactaacc gtggtatttc tccattggga gcattcttgg catttgggtg 240
tgtaggactg tccctcacat agtgacctct tactcatgaa ttgccagtgt cacattcaga 300
ttcttatggc aaccagaagc tccctgtctc ccagcatttc tggactcagc ctgggctggg 360
gaggttagct cagaccaa atctcctttc tgccagttgc tctgctaggc ccaggtcatg 420
ctgagcagag caagatgtag ctgaaaacca aataagtcac gtgttccagc ttgctgggg 480
tttgtgaaga aagcagccac cctccagtc atatagtttg caggttggga tttgcatt 538

```

&lt;210&gt; 141

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 141

```

tggctattgt cttaagctac tattaccttc ttgcttgtca agttgcgcat ttacttttca 60
aggcttgcta cgtgcctgga atttctagat tttcctttat ttccatgctt ggggagagga 120
gtgcctggca ggctcctaag aggggtctgt gctccatctc gccccctatc ttgaactatc 180
ggttgggtgc tctagaatct gtatgggggtg gaagtgttca ttcattttct gtacaaaagc 240
aatcaatgct tattgtggaa aacccaaata agagagttgc tctaaacaac accctcccca 300

```

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```

gtcccaatac cttgtccaga agaaaccact gtttggtag tatattagtc taatgtctgc 360
agaccagatc ggatgaccaa gttttccata aatggatggc catccacttc ctttcaaggg 420
cgagggtagt ttgttctgat ccatctccct gtttcacagc tcaggaggagg aggaagaccc 480
aggaaggaga gctgccacag ttactagtgg ccagctggg atttaaagtc cgccgtgact 540
gaagcttggc tccacatgcc agtctgcaag gccctgagtg ccctcagcag taattccaag 600
caaagcaggg aagcagcggg ccaggtgctg aactgaactg ctgctcaggg ctctcg 656

```

```

<210> 142
<211> 579
<212> DNA
<213> homo sapiens

```

```

<400> 142
ctgcatatgt tccccaggt atttgcccc gaagcacagt catctcactg ccttgcatag 60
tggaatgcta atcagcagaa gacccttcta tgggaggcag cttggaaacc tggagggaagc 120
cctggctgag gaggctagt gtcagggagc ctatcctggc caggtcactt tccccactg 180
gggcctcggg ttcttctttg taaagggaga aacttacatt aggcatattc tcagggtcca 240
tttggttctc aaattctaatt atttttatgg ttgatgctct caccagagct gctgctatga 300
tctcagagac gtgaggctca gatctaatta gaagcaaccg gaagagagca gttgggattt 360
ttcaactcag gaatcagtct ccctgctggg ttcaaattca ggctctgcca cttacagctg 420
tatgactaag ccttggttttc ctcaactata aaacagagga tagtagtagt taccatctta 480
aaatagctgt tgtgttgtgt ggatttcaag gatcatgcaa gtcaagcatt tagcacagtc 540
tctgctacat aagtggtcag caaatttgag gtactattc 579

```

```

<210> 143
<211> 985
<212> DNA
<213> homo sapiens

```

```

<400> 143
agacccttct atgggaggca gcttggaac ctggaggaag ccctggctga ggaggctagt 60
ggtcagggag cctatcctgg ccaggtcact tttcccaact ggggcctcgg tttcttcttt 120
gtaaagggag aaacttacat taggcatttc ctcagggttc atttggttct caaattctaa 180
tatttttatg gttgatgctc tcaccagagc tgctgctatg atctcagaga cgtgaggctc 240
agatctaatt agaagcaacc ggaagagagc agttgggatt tttcaactca ggaatcagtc 300
tcctgctggg gttcaaattc aggcctctgcc acttactagc tgtatgacta agccttggtt 360
tcctcaacta taaaacagag atagtagtag ttaccatctt aaaatagctg ttgtgttgtg 420
tggaatttcaa ggatcatgca agtcaagcat ttagcacagt ctctgctaca taagtgggtca 480
gcaaatttgt aggtactatt caatttatgg ctctattgtt tggggcttcc aaatgtccag 540
agtaaggcca ttttcgaagt aggcagtaca tctgagagcc ttaacagctc atttctggaa 600
accttatcca gccctatcca gataactagg accaaaaacc ccagcacaca gatgctcgtc 660
ccttgcttca accctcactg acctctactc tgtggcttgt cctgaaaaca tcaaagcctg 720
ctcaattaaa atcctgaatg ccttgataat acaatttaga aacatacata gtttttaaat 780
agggcaaaaa ctctgcatga ttagtgctgc aagaagatat ccagcccaac ctgggtgttc 840
agggagcgtc ctctaaaggc aacagaaatc taaagtaatt taagagccat gccactgaat 900
aaaaatatcc aggttcattt cctgtccttc tctctgtttg ggatctttgt gtgtctttta 960
ttaaagtag gagagccctg ctttt 985

```

```

<210> 144
<211> 597
<212> DNA
<213> homo sapiens

```

```

<400> 144
actacttcta aagcctctta gaccctggta atcttctctc taacaccatc gggtgactgc 60
aaagcactgc aggccagact tcagttctgc tgtgtaattt gcaagctggg tgaccttctc 120
tatctataga atgggctctc tctgcatggc tggcatgagg aataaaciaa atgggtgtgt 180

```

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ccagtgcctg	gggcatagca	cagctcaaaa	aacttagttc	atcctcctga	gggatcaaga	240
agatacttgg	aaacaaatgt	ccaagggcgt	aatcttgaag	gggcttgtgc	caggcatata	300
tggagagaag	ggttttgtgg	gatgtcagac	ttaatagtgc	cctttactcc	ccacccccgt	360
ctctctgttc	atagacagga	aatctgtggc	ctattctggg	acctcaaagt	gccacagggg	420
taaagatacc	aagtcagaaa	tctaaggttc	taaatggact	ttagaccatt	tttcatttgg	480
gaaggaagaa	ttctttaagg	ggttgtgctg	gcgctgtctc	tgtatgcatg	tgcagaatgt	540
gcttccagat	ggggtaatgg	tctgagtttg	aggacagaag	tccactccac	tgcattc	597

<210> 145  
 <211> 988  
 <212> DNA  
 <213> homo sapiens

<400> 145						
gggtgtggcc	tttggacagc	accttagcag	gaatgtggtg	gagagcagcc	ccattcactc	60
cagaggagag	cctcaaactc	ttcaggcaga	tctagcctag	gtagaatctt	ggcctggccc	120
ctccgggatg	acaggtgcc	ttgcccaaga	atggggaaaa	ggctgaagtg	ctccagccaa	180
agaccccaat	ttatcttcag	gacaattttc	actggaaaacc	ttgcctcacc	actgccact	240
ttttcagaag	taattagaat	gctaattctat	aagaaagatg	actattaaaa	ataaattaat	300
aatagataat	acattttggc	ttacaatttt	gaataatata	gccatcccat	cttaaagtaa	360
aaattcatat	atttttaata	agcctgagac	atgtttttcca	atgaaccaca	gatggttcat	420
ttttattatc	ctataaagag	acattatggg	caagtgtttt	ttaaaatggg	aaaacagAAC	480
cttagagcag	ctctcttttg	agagatctct	aagcactttc	taagcatcag	gacccccctc	540
tgctcatcac	gagactgaaa	tgaggagatg	gtctctgtca	ccccctcact	caccagttag	600
ccccagacct	tcacccctga	tcagatggaa	gcagtgtggc	atgattacag	ttcatatttc	660
aactctgcc	ctcaatgact	aatagccaag	cactaataat	gcagaaaatg	taaattttaa	720
aaataatctt	cctgagattg	gttatgaaat	gcactcaaca	cagcaccatc	cacagagagg	780
ttctttttaa	ttgctctttt	ctttcctctc	gacaccaga	atcacaaagc	atgcctgaaa	840
gcgtcacaca	tatatgtctg	tgaccataac	atggcattgc	acatgcaaag	gaaataaata	900
ggtgttaccc	atgtgacaaa	ggtccatgag	ctctgtccgc	aaaaagctgt	tgagttttaa	960
gaacaaataa	ttctgaaaaa	tcttccag				988

<210> 146  
 <211> 835  
 <212> DNA  
 <213> homo sapiens

<400> 146						
ctgccattct	gatcactgca	agacccccac	ccccaatact	cccaattgta	ccacccccacc	60
ccactcacca	gtgtctcaga	aatgcctcct	ccagaaggaa	ggcatcctgt	ctaaccact	120
gcttctaagc	aagctgtctt	tcttcagaag	gtagaaaaag	tattgttagt	cattgtttta	180
tctttattga	gtatataccg	ccacaccaat	tgactgcc	ttcattatct	cattttaaata	240
tgacaagagc	cttgtaaagt	agggattatt	cccaccattt	ccagatgtt	gaaactgaaa	300
ttgataaaca	cgacatgttg	ccatggctac	atgaagatct	ccaagccgga	ggatctccac	360
cctcacctgc	ctagcttccc	agacctctct	gcagaaaagg	gactgacccc	caagacagcc	420
ctggcctctg	ggctccaccc	cttccacatc	catcccaggg	ccgctgagga	ctgaagagtt	480
ctccacgttt	gcccttttaa	gtgacttaaa	aataatcttt	atgaatttct	tcataataca	540
aatttgtact	tactcattgc	agcaaattta	gaaaatacac	ataagcaaaa	aagaacgtaa	600
cagccatcca	taaccctaac	tctcagagat	caccactatt	aaaatgttta	ttatctaaga	660
gagagatgat	atagacaaag	atgagacaga	ttgacacaga	caagatgggt	acatgataga	720
tattttctgt	gttataaccc	ttgctttttc	ttgcactttc	tagaattttt	ctgagaacta	780
atctgaaatc	tgcacagggt	ccccacgttt	ggatcctcta	tccattgccc	ttcca	835

<210> 147  
 <211> 904  
 <212> DNA  
 <213> homo sapiens

153/203

&lt;400&gt; 147

```

agctgagccc caggggtccc ccatgagtgg ggaggaaaact catgagtgcc ttctatatgc 60
cagcgctcta tctgcagggg ttcttttgat agcagcagac tgagagatga tgttactgtc 120
ccctttttcc tgttggtggc aactgagact cagaggatgg aagtgacttg ctcagggtcca 180
ccacctcttc agctgtggag ctgcgacagg agcctttggt tgacttcaaa gctcaccatc 240
actcctctct cactgatgct caagtgggct atcacctcgc ctttcctgag ccttccttcg 300
ctatcctaaa acagcgccct ccgaaatcac cactaaagaa cttattcatg taaccaaaca 360
ccagcgggtc ccctaaaaac ctatggaaat aaaaattaaa aataaaaaca gtgcctccca 420
tgacctatgt ctctccagtc ccataactct gctctatttc cattcacagc tccatcccca 480
cctttatgtc ttttggtcac tgctttatcc ccagtgccta gaagagtgtc tggcacctag 540
tagacactca gtaagtattt gtogaatgag ttaataaggt tgtgaaaaga acgttagatt 600
actggaagga ttcatctgag tttaattctg ctatgctggg aatccagtgt gcggccttgg 660
atgaaggcca gttccctccc tgggccccag tagccacatc tgtacattta gagggcagga 720
gaaaagccac acgctctgtg acttatacaa cttgttgccc agagtggagg ctgctttgat 780
gctcagaaaa aagaaacaaa catggaaatg ctaaattggg ggcagagagc ttgagggagg 840
aaggagatgg ggagggtact cttgaaactg tttggtgtct tccctcctgc cccctcagta 900
ccaa

```

&lt;210&gt; 148

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 148

```

gcctgacaga tttttactga aggggtgcaca ttggaataaa aaatgtgtta cctatctggt 60
tgagtcttca gcttcagaaa ggtaatagag caaaggcaga taaatccaaa cagggactga 120
gctgttttca tgcaggctgc cttggtagct ctccaaagcc ttcaaaaatg atgagatttt 180
tttttaaate ctttttatcc aggttggtct caagggattc caccctgca taggagagct 240
caccattcct gggatcttca gcttctatgc ctttgcatat gctcttcctt tgttccctca 300
ttcttcaaca ctcaactgaa ttatcacctc ccttgaagcc ttctctgaca tcccttctag 360
tcccatgcc acccaggagg actaagagct tccctccctc agctcccagt tcttaaacad 420
gtcaacactg ttttgaaatg atttgccaat gaaaaattct agaccagcaa ccaacaacat 480
ccttcccaaa ggtgtgttat atatggtaca tgctctatgt gctaaacacc aaattcattg 540
ataacagcta agaaccagga aacaaacct cgttaattat ggcatctctt gaaaaatcta 600
aagatctgga ctactgggc ttaaattgact gcatgataac aactgggttg gtaacaactg 660
tttccctttc atggagcagt tactctccag ttctcagttc ctaccactct ctatagttgt 720
acactcatca tctgtcctca tctgaattac ctgccaatga ctactggcat ttgagtttct 780
aatccatggg ctatgtgtat gcctcctcac cagtgtgaga actcatgtaa acagggtatta 840
tgtcttttca tctctctcct aa

```

&lt;210&gt; 149

&lt;211&gt; 1105

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 149

```

ataatggtca cgttggagca attgccattt caaatcatta ggaacactca ggtcactttg 60
gcatggagct attttgtaaa agacgtagaa gccatttata aactttggtt tgctttttta 120
aaatttattt cattctgagg cttatccgtg taaaattacc aaaatgattg tggttagact 180
ctacattgtc acagtattta aatgtgcaca atattccact tagaaataat gtcagtacta 240
aaagtagtag agggctttga tagcaatatt aatacatcgt taagcccttc tcattaaaca 300
gtgtaatagt cttgttgaag tttgttaggc attttaacca ctactaatta aaaatagacc 360
tactgactag tctgttttac tgtgctttat tgtgtcttgg atgttcattc agatactttt 420
gctgttgaga aatcaaactg tctcttatgg ttttaattac aaaatacata ttagaggggat 480
acagttctta gggctgtgat ttttaatttg tgtaaccttt ttttattttg gaaaggaaat 540
ttcagatttt ttctagtaat ttttcatttg tgagtgttgt tttctagata cagaaaatgt 600
acctagatag atgatcacat tttaggatat tttgcttacg tgttatttta tatttatata 660

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154/203

```

ctataatacc attgtatagt tcagaacaag aaaatatott gataaatcat ctgctactgt 720
gaggcagtta aaaaaatttg aggctcactg aaaatgtgtg acttgcccac tgtctcatat 780
tgctagtatt ggagagaaaa ctagaatcta ggcctttatt ttctgatgt aatgatttta 840
gctaattatt atttattttc ttaaatcatt gcattaattc gattttttcac aagtagagcc 900
tatatcagtg tttgcaataa ttaaatttta agtataattc tataattgta aataaaatcc 960
tgacatttgt tacaggatgg ggttttcttt catcatattt ttataataaa aattaagcag 1020
ttataaaaat aaatagccta gtttttcaat tgggtataagc tggcctttatt ttatactgct 1080
aataaaggca cattatgttc aagca                                     1105

```

```

<210> 150
<211> 595
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 550
<223> n = A,T,C or G

```

```

<400> 150
cttatatatt cattaattaa taatttatat tcacacaatg attgtagaaa tgtgagtgtt 60
tcttagatta ccaaacatct gtgaaatcgt gaaggagtat tgaaatttag taatttgggt 120
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<210> 151
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 151
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```

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<210> 152
<211> 700
<212> DNA
<213> homo sapiens

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<400> 152
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tggtgtgaac acccagagga gggagccgga gtggacgtct gcccagcgg caactggacc 180
cctctggggc accaggtgtc gggactctcc tcttggggaa atctctgaga gccgaaggaa 240
gcggcatggt cacaggtggg ggtgaccgga ttctctgttg gaagtgtggt gaagctcttc 300
ccattcccat gacagctggc gtttgagcac tcagtgcagg gtgctgccac actcccacac 360
tctctctagg cggctatgcc aggtgcagac ctgcgagtc cttcatcagg aagagtgtc 420
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tgcgagctga gcttacatca aggattaaaa agcataatat cgtggagttc cttctgctg 600
gacgctgttc cttcaccacc tgtccccagc cgaggcatgg ctgatctcac catccgtggg 660
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<210> 153
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 153
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cttgccaagg ggtagaaatg gaatcttggg caacttaggt tccccctcc actctctggg 180
gttgcatctc caggccaggc agtttctgct ggtgcttttg ttctttgggt ctctgtcttc 240
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tgtacataac ttgtagccat tgtggtgcca tggatcacag gtcacgatgc tgtgtggctg 540
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tcctctagga ggggccaaac ag

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&lt;210&gt; 154

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 154

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157/203

gtctcttttct gtctcctctg cc

2002

&lt;210&gt; 155

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 155

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2002

&lt;210&gt; 156

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 156

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gaaaattcac caagaacagc cacaggcagg ccagaagaat ggccctgcc ctctactttt 120
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158/203

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tcctacagcc ctgcatgcat cttctctgat cccttgccctg agtgggggggt ggcattccaa 540
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2002

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<210> 157  
 <211> 925  
 <212> DNA  
 <213> homo sapiens

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taacatgtaa ggtaacatat tcacagcttc tggggattag gacatgcac cctaggggaa 180
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tttgaacaga agcagagcag agcttgtagt tgtgtgtgtc actcactcct gcctgtgggg 840
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925

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<210> 158  
 <211> 1383  
 <212> DNA  
 <213> homo sapiens

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<400> 158
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atattagttcc ctgcttttcag ttcttttggg tatgtatcca gaagcagaat tcttgatca 180
tatggtaatc ctatttttaa ttcttttagg aactgccata ttgttttcca cagcagctgc 240
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gctagcatgt ggcaggtgct gcctaaatag tagaaattaa cactgccatg cttataagct 1080
ccggacaaac acaagaagcc cgaaacataa tctgtgcctt ctgcttgcat tcctcctagt 1140
tggggatgta aaatagccca gctacaatca aagaagaaaa tcaaagtcag cacagactat 1200
ggatatgctt ctatatgtgt agattatttc cagactcatt cggaagaatc tggacatact 1260
ggttgcctca gaggtcaaga aaattggctc atttacttct gtaacttaat ttcgactctc 1320
tatgctttta catagttgga atttgccatg cacatatact acatttaaaa gagcgtgtac 1380
gcg

```

<210> 159  
 <211> 910  
 <212> DNA  
 <213> homo sapiens

```

<400> 159
cacaattatg ctgtaggtga gttttacctt gggaaaccaa ggcacagaat ttaagtaaca 60
tattgaagct catgcagctg ctaacagggg aggcaggggt ctgaaccag ctgatccggc 120
tccagcatcc gagctctgaa ccactggtct atcctgctc tgtaggact tggccaatg 180
tcattcatct agaaggaaca tttaggcccg cacgggtgggt ggctgggttca atccagtta 240
aaggccagga gcaggacagt gacttgcagc tgcagcaatc ctatgactca aaccaaagca 300
gctgtgacaa ataaagggac tgactctcat tctccctgctc tagggaagga tgagtctatca 360
ggccttggtg caggctgagt cagtcatccc acaaaccacc taagtgaac ctcttactg 420
agccttattt cctgagcgtc ctccctttat ctgtgcttgc aaagaggctg tctccctcca 480
tgccagccaa cccaccacc cccgcacaca cataccacct ctggctggaa ctgacgacca 540
tgggtttttag aaatgagata aatctgggag atgaatgtat tcatgagccc ataaaggggt 600
catgaatcac tggcccaat tactgccttc aatcctgaca ggatgaattc cctcaagcag 660
attctccttg tcagacaaca cgggaggcag tgtcatgggt gatctagagc cacagataac 720
atcattattc cataccaggc tggtttcggt ttcccaagcc acctccactt gatttacagc 780
tcacttctga tgctggagag agagataaat atatatatat atatatatat 840
atatatatat atatgaaaga aagaagaaa agagagagag agaaagacac aaaggggaag 900
ctttcatgcc

```

<210> 160  
 <211> 898  
 <212> DNA  
 <213> homo sapiens

```

<400> 160
atcccaatag gacacatgtt gtattaaaaa gccatgagag acggaagaag gaaattgaat 60
gaaatttgag ggcaggtagg agcagagaca ataaataatt cagcagtga ggaagcagaa 120
aaaagattgc actcatttcg cccttcaaca attatactaa acacctgctc tgggccacag 180
aagggccaga tccattcct gtgctcagga agcccacagg ccggcagggg gaggctggtt 240

```

160/203

```

ggaatgtgtg ctttgcactg taacggaggc atcgagcatg gtaagggact ggcggtggct 300
gctgcctgcg gacgtcgagc aggggccttt gaagaggcag gacctgtctg gagtcttacc 360
tgggccttgg ccctggcaat ggggaatgga gcaggcagca ggggacagat gctgccagaa 420
gaccgagatg gtgccggagg actgggctga gtctgggtca aatgacaccg cccaggtctc 480
tctgcctctt ggggtgaggc aggaggctgc ctctgtgtgt gattcagaga cctagaatc 540
ccagtggcca tcacccca caacatgcc aaccttctgt gataactttc tcttgtggaa 600
ctgtgaaagt gtaagaccag ctctgtata gtgcatggcc atcctttgct ttggggacag 660
taagtcagtc aacacatact tataaatggg gtctggggcc gtggcactga tctggtcctc 720
ccaccttgcc tcacactgcc cttccactc accacttccc tcctctgcat cttagccgca 780
agggactttc agaccaagca gacctggaat caaatccac cgctgggcct caatgccagt 840
ggagacagga acagctgac cctggagccc tcaggaggaa gaggacggga tgctggc 898

```

```

<210> 161
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 161
cccactcacc acttccctcc tctgcatctt agccgcaagg gactttcaga ccaagcagac 60
ctggaatcaa atcccaccgc tgggcctcaa tgccagtggg gacaggaaca gctgatccct 120
ggagccctca ggaggaagag gacgggatgc ctggcttggc tgctggtctg gggcaggtgc 180
ccagttacag cagttggaaa aatcctcagt gttggaagga aatttggaa tgagcatcta 240
cctgcctgcc gtgcagtttg tgacttttaa gatggttgac agaacattcc caaaggacca 300
cagcgggtgac cactgttctc gtttcccttt ggtggctcac tcactcagtg ctggacacag 360
tggtcctgac aagacagtgc tgtggcttcc atgaacctag gacagggata gactcaagga 420
ctaagaacaa accaggaaga agcatcacca caggctcctt gccagtcaac tcatctcacc 480
ctcctggccc tggcggatgg gtctccatat ttacaggggc cagatgaaaa aaccagagga 540
gccaggaaaa ggagcttccc cttcccaagg gcgcaagggt aggtgccagt catgagatgc 600
aagccctgag ctttctgatt ccactgcatg tggccccagg gtccggcgcc gcatcacaca 660
gttagtgagc aactctcct cccctggccc cgagttagcc agctggatgg cagatcagaa 720
agagaagtcc cgggtgcccc caacatggct agctccttcc aggaccaggg gctaggcccc 780
agctaaggct ggtgcacaca gcagggcagg gggcgcaagg gtgggatccc acccagggat 840
ccaacccacc ccaaacctgc tttcggacat ctttccaatg cataatgtgc agatgaggcc 900
ctttgataag gaccaaatcc ctttccgttg cttggcaacc tggctcacia gtcatagcag 960
ggaagtaatt tacaggaatt caaagtgtcg ctggagggtt gtgctgagct gaattgctgc 1020
aaagaggaac ctcaatggtc caaatcacac ctctggcggg gaggaggggc tgaaggaaaa 1080
gcttccactt ccgtcacttg agagtacaga gccctgagct cagactcagc gatcgttttc 1140
cattaacgga tttactggtt ccattgttgag ctctgtctgt gtggcaggcc ctgtgctggg 1200
agccagggac acagtgacaa acgagacaga tgccaacccc ggatgcacag agctcaaaga 1260
gacagaggag taaacagggc tacacatgtg acaagatagg ctgtgcacag gggctctgagc 1320
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cagctagcca gatagagaac agagggtgtc ccagcacagg gccacacaag caaaggcaga 1440
gggtggggaga gaagagcctg ccacactctc agatcaccat gtggttgggc cagggcccca 1500
gctgaggctg aggacacatg gagccagat cgggcagggc cttgaatgcc aagtcagaaa 1560
gcatctgaaa tttagtctac agatgatgtg ggttattgac agccaggaca gggaatgaca 1620
tttgtgtttc aggaaaacca ctgtcttcac tgtaggggg tagattcagg gagaaacagg 1680
aggtggaggg gaagaaactg tgagtaaagg agtctctggg gtacagggtga agtttctgtg 1740
aaactggaga agaaaactgt tgaggcaaga gttgacaaaa cttgaagtag gatggagagg 1800
aagggacaag ttcctctggc atggtgacgg ccgggtggtg ggaaccaggg aagaggaggg 1860
gctttgcagg ttctctgact gcccaacagg tggcgccatt taccaagatg ggaaggggcg 1920
gggagaaggg agggttccat tctagggaaa tctcagggtc tcgctattag gattctttcg 1980
gttgccagtg actgaaaccc ag
2002

```

```

<210> 162
<211> 1002
<212> DNA
<213> homo sapiens

```

&lt;400&gt; 162

```

actgtctaga tctgggggacc ctcccaagct ctcagagctt tggaaggaag gtccctgcag 60
ggaaactgtg tgtgttttctt caacagtgtg tcctcagtcg ctagcacatg gtaagtgttc 120
cataaacagc tgttgaagag acggatggat aactgaatga atggatgctt ccatgggcaa 180
tgacacacta atctgaaaag ccctgtatca atgaaagaat cacttaatag ttttaactttt 240
ccctcatcct tcagaacaca gatggcatgc catcttccct tcaaattctt tcccagtgcc 300
ccacacagaa gaggcacact tggacactgg tgtctgatgg acccaagttc acagcctgtc 360
tctgggtcatc aggtatcatg accttgggca agaagcttaa ctctctgagc ctcagtttcc 420
ccttctgtcc cccagggaat atgagtcctg cccctcctaa gggaggtatg agatgtaaga 480
ccccgaagga cacaagggtt ctgccaggag ccttcaggta ggaggcaggt aaggaggtct 540
gctagattgg aatgagtttc tggaaggccc caaggagctc aaaatcagac ctgggggtgaa 600
ggtgtcttga ccaaaatgag acccatcaaa gaagcctgga tgaagggtgc cacagcatcc 660
atcagtgcca aaaacagaaa cacttttagc caggatacaa ggaacatttt aaagcaacag 720
agataagaga tagttagaac tcaggcctcc tggtcttgcg tgttcttggc ccataattag 780
ttgttatggg accttaataa acttcttggc ttcttggtac ctttgccaaa caatctgatg 840
aggagaatat tgagtcatgg tgccagggaa aattagcata ttctgcaaat tcttggcact 900
gttaacactg gattctgtcc acctttagaa atcctcagat cactatgtca gcatccccc 960
atcacagctc tccaacttca aggagggttg aggggtctga ag 1002

```

&lt;210&gt; 163

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 163

```

aagaatatca gttccacttc cettgtccct agagagcctt gtagtggatg ttgatgtgtc 60
ttccaacaca tgcaccaacc tttccctgtc ctgtagcagt tgagatggaa tcatccact 120
cccagctcca ggaataggct ctgatgggct tgaaccagc agcttaattc cattgggttct 180
ctaggccttc atcattagta caggaaaggc acttgacctt aattagttcg ataagattta 240
agctcagaaa tctggtttgt tggtatggaga aagagatgct ttctttctct ctggaaggag 300
tttattgcaa aagtaagggc tggggctgct acagccattg tgctaccatg agggaactag 360
ccatgataac aaaacttgcc tggggagggg ctacgcatac cagaaaatga tgccaaagtc 420
ctgtctcaac tgtgcctgat gcctgcctga tctatggact tcttagttcc atgtaatgga 480
ttctctctat ttttaaagcc agtatcagggt tgaatttttg gagaaataaa acaaaaagca 540
tcttgactaa tttaaaaaat cttctttggg tattcaacct tcctaaactc acccccaa 600
ccactgggag catgtcaaga tttttgtgag ccgatttagg agatgcaaat tcatttgcct 660
taattggatc tccaggaaat gacttctgcc cctctttaa tcatttaaag ctcaaagagg 720
catgagggcc ctccccaagg atgcaggat cctcttgact gacagcctgt atgctctgct 780
tccaggatcc ttccatctcc tccctttact gagggagtct gctatgtgtt agagggtgtc 840
atcactggtc aactgggaa gctgtggcag ggaagctgga gaaaaagcaa gataggcccc 900
agaaagaaca ccaactccag actcagggag actcaggcca gaatcctagc tcaacttctt 960
ccaagctccc aaagtcacac tcttttctct gagcctcgat tt 1002

```

&lt;210&gt; 164

&lt;211&gt; 957

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 164

```

atcccaactcc cagctccagg aataggctct gatgggcttg aaccagcag ctttaattcca 60
ttggttctct aggccttcat cattagtaca ggaaaggcac ttgacctaaa ttagttcgat 120
aagatttaag ctcagaaatc tggtttgttg gatggagaaa gagatgcttt ctttctctct 180
ggaaggagtt tattgcaaaa gtaagggtct gggctgctac agccattgtg ctaccatgag 240
ggaactagcc atgataacaa aacttgccct gggaggggct acgcataca gaaaatgatg 300
ccaaagtcct gctcaaaact tgccctgatc ctgacctgat tatggacttc ttagttccat 360
gtaatggatt ctctctattt ttaaagccgt atcaggttga atttttggag aaataaaaaca 420
aaaagcatct tgactaattt aaaaaatctt ctttgggtat tcaacctcc taaactcacc 480

```

162/203

```

cccaaatcca ctgggagcat gtcaagattt tctgtgagcc gatttaggag atgcaaattc 540
atttgcccta attggatctc caggaaatga cttctgcccc ctcttaaatac atttaaagct 600
caaagaggca tgagggccct cccaaggat gcaggatatcc tcttgactga cagcctgtat 660
gctctgcttc caggatcctt ccatctcctc cctttactga gggagtctgc tatgtgttag 720
aggtgtccat cactggtcac actgggaagc tgtggcaggg aagctggaga aaaagcaaga 780
taggccccag aaagaacacc aactccagac tcaggagagac tcaggccaga atcctagctc 840
aacttcttcc aagctcccaa agtcacactc ttttctctga gcctcgattt tcccatctgc 900
aaaatgggga tactaagggt cacctagctg ggctgcctg gagattccaa gacatta 957

```

```

<210> 165
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 165
gggtcctaac aggccacaga cccatccgtg gccagggga ttggcgaccc ctgtcttttt 60
ttttttcttt tttttgagat ggagtttcgc tcttgttgcc caggctggag tgcaatggca 120
cgatctcgac tcttcaacct cgcctcctg ggttcaagcc attctcctcc ctcagcctcc 180
caagtagctg ggattacagg caccgccac catacctggc taatttttgt attttttagta 240
gagatggggg ttctccatgt tggtcaggct ggtcttgaac tcccgacctc aagtgatccg 300
cccacctcag cctcccaaag tgctgggatt acaggcgtga gccaccacga cctgcccggg 360
gacccctgtc ttaaaccacc ccagcctgtg ataactttgt atggtgaccc taagaggcaa 420
atacaccctc ctttcccca cctctccctc cagacgaaac cgatgcgaaa agtgcttcat 480
gaagtttcag gtaaagaagt cgtgggacga aaagggatag tgaggatggc gggaggggct 540
gaactccaaa tgggcttata aaggctctgc aaaatggcgt gacggcgctg ccccttctg 600
gtggcctgaa gactaacgca catgatgtca agtgcggggc ccaagtactc aggaaaaggt 660
tctcatttgg aactgggag gtcttacatt gggggccctg agcctccagc ccttccaaat 720
ctattctcag caggagctca gccacacctg tgtccagaa ctgaggccag gccagcctt 780
cactccacgc ccagccagcc ccaaggaaac gactcctga ggctctatgc tccctgcctc 840
cagtggcccc gtgtctggga aatagtggcc ctggcctgat gccctgacct gggcaatcca 900
tccctgggtc ctctcagctc ccgggccag gtttcttggg ctactttaac cagggcaaac 960
tcattcctcg agtacaaaat aaaagattcg aacagcataa tc 1002

```

```

<210> 166
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 166
ggttagtggg atgcagcgcg aggctaagga gtgtctgggg ccaccagaag ccagggaagc 60
ctaggaaggg ttttcctaga gcctttggag ggagcacagc cctgctgaca cctgacttc 120
agactcccag cctccagagc tgggaaggga taagtagctg ttgctttaaa ccagtgggtcc 180
ccaacccttt tggcaccaga aaccggtttt ggttcagtgg aagacaattt ttccacggac 240
aggggtgtgtg ggggtgggaga tggtttcagg atgaaactgt tccgcctctg atcatcaggc 300
attagcatta gttagattct cataaggagt gagcaaccta gatccttcgc atgcgcagtt 360
cgcaataggg ttcatgctcc tatgagaacc taatgcggcg gctgatctga caggagcggg 420
gctcaggcgg taatgcttgc tcgccagctc acctgctgtg cagccggggg cctaacaggc 480
cacagaccca tccgtggccc aggggattgg cgacccctgt cttttttttt ttcttttttt 540
tgagatggag tttcgctctt gttgccagg ctggagtga atggcacgat ctgcactctt 600
caacctccgc ctcttgggtt caagccattc tcctccctca gcctcccaag tagctgggat 660
tacaggcacc cgccaccata cctggctaata ttttgtattt ttagtagaga tggggtttct 720
ccatgttggg caggctggtc ttgaactccc gacctcaagt gatccgccca cctcagcctc 780
ccaaagtgtc gggattacag gcgtgagcca ccacgacctg cccggggacc cctgtcttaa 840
accaccccag cctgtgatac tttgttatgg tgacctaaag aggcaaatat accctccttt 900
ccccaacctc tccctcaga cgaaaccgat gcgaaaagtg cttcatgaag tttcaggtaa 960
agaagtctgg gacgaaaagg gatagtgagg atggcgggag agggctgaac tccaaatggg 1020
cttatcaagg ctctgcaaaa tggcgtgacg gcgctgcccc cttctggtgg cctgaagact 1080

```

163/203

```

aacgcacatg atgtcaagtg cggggcccaa gtactcagga aaagggttctc atttggacac 1140
tgaggaggtct tacattgggg gccctgagcc tccagccctt ccaaattctat tctcagcagg 1200
agctcagcca cacctgtgtc ccagaactga ggccaggccc agccttcact ccacgcccag 1260
ccagcccca ggaaccgact cctgagggt ctatgctccc tgcctccagt ggccccgtgt 1320
ctgggaaata gtggccctgg cctgatgccc tgacctgggc aatccatccc ctggtcctct 1380
cagctcccgg gccaggttt tctgggtac ttttaaccagg gcaaaactcat tctcagagta 1440
caaaataaaa gattcgaaca gcataatcaa ataggtcata cccataaatc aacacatttg 1500
agcacctatt ttgttgttct ttcactaatc caaacctat ttattgagca tctactatgt 1560
gccatttctc agtagccatt ctagggtgcag gggatacagc agagaccttg aaaaaaggaa 1620
cagtctctga tcttgctgag cttagagtca agtggagggtg aggaggaagg aatgaatta 1680
acaactaagt gaagcagaag gtaaccaatt gattgactga cgaaggggtg caaacaacaa 1740
acaccttctt ttctccaaac tctatcttta actgtattct ctggttttcc ttcctctcca 1800
ttttacaatc attttacaac atctctgggt attctoctat atttctgatc acttcgggtt 1860
tcatcacaat aataatttca gttttcaagc attggaaagt cccatccaat taaaatgtca 1920
atctcacacg cagtttaaac gtttcgctg cccgtgagct cagacctgtc ttggtgcctc 1980
agttcttgtg tggaggggag ga                                     2002

```

<210> 167  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 167
tggtggcctg aagactaacg cacatgatgt caagtgcggg gcccaagtac tcaggaaaag 60
gtttctcattt ggacactggg aggtctttaca ttggggggccc tgagcctcca gcccttccaa 120
atctattctc agcaggagct cagccacacc tgtgtcccag aactgaggcc aggcccagcc 180
ttcactccac gccagccag cccaaggaa ccgactccct gaggtctat gctccctgcc 240
tccagtggcc ccgtgtcttg gaaatagtgg cctggcctg atgccctgac ctgggcaatc 300
catcccctgg tctctcagc tcccgggccc aggttttctg ggctacttta accagggcaa 360
actcattcct cgagtacaaa ataaaagatt cgaacagcat aatcaaatag gtcataccca 420
taaatcaaca catttgagca cctattttgt tgttctttca ctaatccaaa ccatatttat 480
tgagcatcta catgtgcca gttctccagt agccattcta ggtgcagggg atacagcaga 540
gaccttgaaa aaaggaacag tctctgatct tgctgagctt agagtcaagt ggaggtgagg 600
aggaaggaaa tgaattaaca actaagtga gcagaaggta accaattgat tgactgacga 660
aggggtacaa acaacaacaa ctttctttt tccaaactct atctttaact gtattctctc 720
gttttcttct ctctccattt tacaatcatt ttacaacatc tctggctatt ctctatatt 780
tctgatcact tcggttctca tcacaataat aatttcagtt ttcaagcatt ggaaagtccc 840
atccaattaa aatgtcaatc tcacacgcag tttaaacggt tcgcctgccc gtgagctcag 900
acctgtcttg gtgcctcagt tcttgtgtgg aggggaggag aggagagggg aggggaggag 960
aggaaaggag accggggagg tgggggggga gaggggaggg ga                                     1002

```

<210> 168  
 <211> 899  
 <212> DNA  
 <213> homo sapiens

```

<400> 168
ctatctttaa ctgtattctc tcgttttctt tctcttccat tttacaatca ttttacaaca 60
tctctggcta ttctctata tttctgatca cttcggttct catcacaata ataatttcag 120
ttttcaagca ttggaaagtc ccatccaatt aaaatgtcaa tctcacacgc agttttaaag 180
tttcgcctgc ccgtgagctc agacctgtct tgggtgcctc gttcttgtgt ggaggggagg 240
agaggagagg ggaggggagg agaggaaagg agaccgggga ggtggggggg gagaggggag 300
gggaggagag gggaggggag tgggggagaa ggggagaaaa ggcagctgg ctctcact 360
ctccttctct tctcaccat ccttaccctg gccaggggca ggaggaggat tggcagagta 420
gaaggcaggg tcttctgtct tagctgggcc tgttggtgac tttctgttgg ccaacatggg 480
ctgactggaa tgttctccag catggcacat ggtcatccag atgcaggctc ttccctgggg 540
cactatagca gagaggggctc tcttccagtc tattgcagat ggatgccctc gtgagctgag 600

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164/203

ttttgatgaa	catcccatgt	ccccagccac	cccattcaga	gcctctttct	actctggtcc	660
tctggtccca	gcagcagccc	tctgggtact	gaggggaggg	catctcacc	aagcccctta	720
aacctgctca	ccttcttcag	agcccacgtg	gccgcaggaa	agtcacaaac	ccttgtgctc	780
ccacagggca	cacgtgtgca	cacgtgtgca	gctaccttct	ctctagttgg	tacctgaggc	840
tgcctcctgg	attttccagt	ctctgtgttc	ccagacaacc	ccaagcccca	agaatacaa	899

<210> 169  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 169						
agtttaaacg	tttcgcctgc	ccgtgagctc	agacctgtct	tgggtgcctca	gttcttgtgt	60
ggaggggagg	agaggagagg	ggaggggagg	agaggaaagg	agaccgggga	ggtggggggg	120
gagaggggag	gggaggagag	gggaggggag	tgggggagaa	ggggagaaaa	gcgcagctgg	180
cttctcact	ctcctttcct	tcctcaccat	ccttaccctg	gccaggggca	ggaggaggat	240
tggcagagta	gaggcagggt	cttctgtctt	agctgggcct	gttgggtgact	ttctgttggc	300
caacatgggc	tgactggaat	gttctccagc	atggcacatg	gtcatccaga	tgcaggctct	360
tccttggggc	actatagcag	agagggtctt	cttccagtct	attgcagatg	gatgccctcg	420
tgagctgagt	tttgatgaac	atcccatgtc	cccagccacc	ccattcagag	cctctttcta	480
ctctggctct	ctggtcccag	cgagcagccc	tctgggtact	gaggggaggg	catctcacc	540
aagcccctta	aacctgctca	ccttcttcag	agcccacgtg	gccgcaggaa	agtcacaaac	600
ccttgtgctc	ccacagggca	cacgtgtgca	cacgtgtgca	gctaccttct	ctctagttgg	660
tacctgaggc	tgcctcctgg	attttccagt	ctctgtgttc	ccagacaacc	ccaagcccca	720
agaatacaag	agctctgtca	ccaagcatcg	ggcctgtggc	tgactacac	gtctgcagct	780
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cggctcccca	tcgctgggct	gtgacctgcg	ggggcgcccc	tctatggaag	ggaaggagaa	900
aaattcacag	tgctatctac	tcctctgaat	gcactcccac	caatttcctt	ggaaatttct	960
agctttcact	gacatatctg	ggatggggcg	gtggtcacia	aa		1002

<210> 170  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 170						
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cgggcctgtg	gctgcactac	acgtctgcag	ctcaggaccc	ctggctgcgg	cgtaagctac	120
cagcatcccc	ttctcatggg	cacctcatc	tccggctccc	catcgctggg	ctgtgacctg	180
cgggggcgcc	cctctatgga	aggggaaggag	aaaaattcac	agtgtatct	actcctctga	240
atgcactccc	accaatttcc	ttggaaattt	ctagctttca	ctgacatata	tgggatgggg	300
cgggtggtcac	aaaatcaatc	ccactttccc	tcggctagtc	ttacaagcac	ccaacagctc	360
tattcagaat	acagggctgc	ccagctactt	ccattcatt	atccccaggt	tgcaagcttt	420
agtcaaaacc	cagaggcagc	aggggtgtctg	gttccacctg	ctgttaggat	gatttcagga	480
gtgcaaagtg	ttagaaacgc	aggtaaaaca	tgatgcttag	agattaagtg	ggatggggac	540
tgggcagatg	atgctgcttt	ggaccacagc	agttaggtga	gactgcgaca	agacagagcc	600
actgagcagt	gacctggggg	atgggcattg	caggcaaggc	agaaccccaa	gtgggaacaa	660
cctcactggg	cttagcaaaa	ctaaagaggc	ccaaagtata	ctgagcgatg	aggtgagtgg	720
cgtgggataa	ggttggagag	gaggctggaa	ccagacctg	cagggccttg	caggtgatgg	780
gaaggagttt	ggaagggtct	ggaaggtttg	aagcagagga	gggatatgat	catgcctgta	840
gctgctatgt	agaacaactg	tatgcatgcc	aggcctgtgc	cacgcatgct	ctaataatta	900
ctggctttta	cccttgcact	aacgttgtca	tgcaggtagg	agcatctgca	cccagcaaat	960
ggaaactgaa	gctcaggaat	attcagtcac	ttgtccaagg	ct		1002

<210> 171  
 <211> 1002  
 <212> DNA



165/203

&lt;213&gt; homo sapiens

&lt;400&gt; 171

```

acctggggga tgggcattgc aggcaaggca gaacccaag tgggaacaac ctcaactgggc 60
ttagcaaaac taaagaggcc caaagtatac tgagcgatga ggtgagtggc gtgggataag 120
gttgagagg aggctggaac cagaccctgc agggccttgc aggtgatggg aaggagtttg 180
gaaggtgctg gaaggtttga agcagaggag ggatatgac atgcctgtag ctgctatgta 240
gaacaactgt atgcatgcca ggccctgtgc acgcatgctc taatcattac tggctttaac 300
ccttgcacta acgttgtcat gcaggtagga gcatctgcac ccagcaaata gaaactgaag 360
ctcaggaata ttcagtcact tgtccaaggc tccccagctg ttaggtgcta aggctggatt 420
caatccagga cttgcagact ccagtatctt ggcttttcta acgagagtgt gctagctttc 480
taatgggggt ggggaaggca gttctgcccc cctcccatgg caccgtgagc aggtgtcact 540
gctccagcca gtacgcctgg acaccgacta ggaaggagta tgtgctacta ggagggatgg 600
tctgggctga ctctttgaag ttgacaagga gttgcataat ccagctaata aattatgctg 660
gaccaggggc agagacatta ctccaagggt gaccaggtgt ggagaagagg ctgctgactc 720
cggggcccca ggacctggcc ccagggtctc attgcccag tgctgcccc gaaggagtga 780
aagctggagc tgtccgggcc acagccgagg ctgggtgaat gctgcagtga ggctgccgca 840
caagttgcgt gttgtgacat ttgtcttctg gaggggattg ggatgggcta cttcagcatt 900
taaaaacccc tactaggtct gagaaatccc ctcagcttat gagcctgggt gggcagcagg 960
ccttctcaag aagcccagaa ggccagatgc tcacttccca gg 1002

```

&lt;210&gt; 172

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 172

```

cagtgaggct gccgcacaag ttgcgtgttg tgacatttgt ctcttgaggg ggattgggat 60
gggctacttc agcatttaaa aaccctact aggtctgaga aatccctca gcttatgagc 120
ctgggtgggc agcaggcctt ctcaagaagc ccagaaggcc agatgctcac tccccaggct 180
ctcttgccgc tgagctgaga gcaggcaact gaggcctggc aagtgtgaca gctggtgaca 240
cagacagaca gggacagggg gatgggactg tgcctgcagc ggtagccctg gccggtgttc 300
agtggggcca gcatccgtgt ctttctggg ggccagtggg ggccgtggct ctgacgatgc 360
atccctcccc cacgtttttt ctcttcttgt cttggacttt gcaggagaca ctctgctttt 420
gggaacagga gctgggtctc tggccattct ccgcagcccc tcaccattca ctcagtggct 480
ctcaaaaaat agaacctggg agcaaagctg ttcttggccc caaacaacat gaggaaaaat 540
aaataaataa tgtacctggg aactgagaga gttccctctg catcttgggc tctttcaatg 600
agatgtcctc tgcctgcagc aagccccaag ggcttccctc accaggacca gcacctgggt 660
ttgcctgacc ccacacctgc caatgccggg gcaagaatgt ccagggtgc cctgggtccc 720
agagctgatg cttcccacag tgcccagctg tgctggcatg gagctaagga cagggccagt 780
ccaagaaaa caacaaggct ccagggccac cggcactgc tcaggacct ggctgacccc 840
acagatgcgg agtgctgag atggctcatg ggtgaccccc aggcattctg caaaggctac 900
aatggctgtt tggcttgaag acagcccttg caagatctgt tttgagccaa cctgtggcat 960
ttagccctcc ctgggtgaca aataaaaagg ctgaggcttg ta 1002

```

&lt;210&gt; 173

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 173

```

attggaagat aagaatgcag ccaaagaggt cttcagggtg gcgtgtggcc tgggcgctga 60
gactattggg cctagcaact tctcaagcag tctattaacc acagccggta gccagctttt 120
ccccgccctt ctcccaggca cacacagcca cctccatcac caaaggctcag gcgaaccacc 180
tcccatggct acccccagcc tgacttgott tatagaaatc atggcatctc atcctcaca 240
cagcccacac tcacagtga tcttggccat tatgacaact ggggacactg aggtcggag 300
tgggtggaat tctcagaatc acataacaat aagtgttaaa gtcagaattt caacttcac 360

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166/203

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tctctaactc caaagggcgt gtgtgtgtgt gtgcgtttct ggccataatc atattgtgcc 420
ctacaagccc cagtgaggaa tctgctagga aacttggttt ggggaaaaaa tgtaataaaa 480
tatgtgatcc agaagggcgc ctttggtacc tgtcataaac cgcagcatgg ggtactcact 540
atgcctgggg tctgggctct gaaggcatga ttgaatgata tcaactgcagg cctgggtgtc 600
ctgcgaagac acccgtcaat acatgaatat tgacacacaa cgctgcagtg cacgcgcttc 660
tggcagggga gctgctgcac tgcagggcag ctcaagggtta atttgcaggg ttcattgtttg 720
gagtttctga gcaagtgttg cagctttggc cccagccccc ctgaggggag ctctggccgt 780
gcatgagggg cagacagaaa atctcctttc ctccatccag gcctgcagtc tgcagcactg 840
aggtcagcgc tggccacaag ccacccctgt gcctcgtcag cccactgag cctctccatc 900
tatcatgcca caggctgacc ctgaaatgca aaatcattct gtccctccgc cctccactcc 960
cacctcgcac atctatggat ttgctgttca gaaaacatct gt 1002

```

<210> 174  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 174
agttagattg agctgggtcc catcttgggc ctttctgtgt cctccctag aaagtctgcc 60
ccctccccc ctaggggtggc atcagcattc aggcctggcc ctgacgccct cctctctggg 120
ccaccttcac ctccacaacc ccggcaccag caccatccc caccacatcc ccagcacgca 180
gcatctagta agggcaccaa atgcatgccc agacatatga gtgaaatgaa ttaaccctga 240
acctgaaaaa gggcaaccac cacacaagat tctctagaaa caatgtgaat tgtgcagaag 300
gaaattaaac ctactccatc cagcccatcc taaggcaggg acttggacct gttcctcttg 360
atggggctgg gctgaggcgc ggcaaggcag gcaagtgtg aacagttggc aacattgcc 420
atcccgctct cctgcaccag gctgggcctg ggggtgaggg gtggggggccg gggtagctgg 480
gtcctccag caaagagcag gtactgagtc cctggtgact attaggtaaa aggtccctga 540
caattttgag gggccagatg ccaactcgag ggatacagag aagatctagg cacagtcttt 600
ccccaccatg tcagacaaaa aggttagata caggacctga tatgttataa aactcaatca 660
atatttactt agtgaataaa tggacggatg gatggatgga tgcattaggc agccaagtgg 720
gcagcaccga tgacttaatg tactgagtc tccgactcca gcaacatgca ttcattgttc 780
ctactgtgtg ccagtgaaca agagcaatga actcaatgac ttctgccag ggtgggccag 840
ggaaccaggg aagactctcc aaaaaggcag catttgggt gggacgtaca gatgagtagg 900
gggtcgagtg tgtcgttatg tcgctggagc ccagaggcgt ccatcaggac ttgggggagg 960
gcagatgaaa gggccttact gcctaacttg gagccactgt at 1002

```

<210> 175  
 <211> 2002  
 <212> DNA  
 <213> homo sapiens

```

<400> 175
cccatcttgg gcctttgtgt gtccctccct agaaagtctg cccctcccc ctgcagggtg 60
gcatcagcat tcaggcctgg cctgacgcc ctctctctgt ggccaacttc acctccacaa 120
ccccggcacc agcacccatc ccaccacat cccagcacg cagcatctag taagggcacc 180
aaatgcatgc ccagacatat gagtgaatg aattaaccct gaacctgaaa aagggaacc 240
accacacaag attctctaga aacaatgtga attgtgcaga aggaaattaa cctactcca 300
tccagcccat cctaaggcag ggacttggac ctgttctctt tgatggggct ggggtgagg 360
cgggcaaggc aggcaagtgc tgaacagttg gcaacattgc ccatccgctc tccctgcacc 420
aggctgggcc tggggtgagg ggggtggggc cggggtagct gggctcctcc agcaaagagc 480
aggactgagt ccctggtgac tattaggtaa aaggctccctg acaattttga ggggccagat 540
gccaaactga gggatacaga gaagatctag gcacagtctt tccccaccat gtcagacaaa 600
aagggttagat acaggacctg atatgttata aaactcaatc aatatttact tagtgaataa 660
atggacggat ggatggatgg atgcattagg cagccaagtg ggcagcaccg atgacttaat 720
gtactgagtg ctccgactcc agcaacatgc attcattgtt cctactgtgt gccagtgaac 780
aagagcaatg aactcaatga cttctgcccc ggggtggcca ggaaccagg gaagactctc 840
caaaaaggca gcatttgggc tgggacgtac agatgagtag ggggtcgagt gtgtcgttat 900

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167/203

```

gtcgtctggag cccagaggcg tccatcagga cttggggggag ggcagatgaa agggccttac 960
tgcctaactt ggagccactg tatgttttcaa aacaaaggag acgagaggat cctgggaaag 1020
agaaagggtg ctctaggcag aggatgtgaa tgggcacagc acaggtgaga acatcaagac 1080
caggggtcag ggaatctact ggtaaacaat tgtaccccaa gggagcaatc acagcctctc 1140
catccacagg gaaatgcctg gtggggagga atgggaggaa agaaacagat tgcattgactg 1200
tgtcttgaag gtctaattcc agagtacagc atcaccccta tcttccaggt ccagaaactg 1260
aggctcagag ggagactttc tgatgagtgc agcgtgcaga taagagcatc tccaaagcta 1320
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cagtgtgtga acttggtcag gtgactccaa ccagatgact tcttctctctg agcttctgtt 1500
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tggtagaaga gagagaactt ccagtgtgta ggggctgttg tcttaactgc ccagccccct 1620
agataggtag ttatgtcatc tgtgaaatgg gtgttagaat tcttacctcc caggacagct 1680
gtgggcagaa aaccaaagaa tgtgtgtgag agcccaagca ccatgcctgg cacatagtag 1740
gtgctcagga aaggctgagg gtgcagctgc tgtccacaca catggtacca ctgccccagg 1800
aaggggcttc aggaaccaag agcaattctg agcactggtg actggactct gccattctcc 1860
atttcaaacg ctttttgaaa gcagctccag acccaagcag gagagcagga ggcaaaagaa 1920
acgcaggggc tttcccgaat ggaattttag aaacacacag aattgtctcc tgcacagaag 1980
ggaagctgtc ttccacagca ca                                     2002

```

<210> 176  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 176
cactggagct gagactccca ggtcccctag ggcttctctc ccaggggcct ctgggctccc 60
caaggccacg tgctgcccccc actagagacc tgggccagtc ctgaccaggg gaaagagtag 120
cgccgacaac agccccagat ggtatgtgca ctggcacata ctggcagctg ccttcatgac 180
agcaagccat aggtccaaat cccgccccctt cacagggaca ttcccaactg gtcaggggtg 240
gacctccccct tcccggctgt ctttgggtgtc caggacgatt tgccacagac agggggagct 300
aaagggggccc acgcttgagg ccgctcagct ctgagtcctc gccggccaca gaggaccttc 360
gtgctgttcc tctgtctctc tgcccagtc ccaggccagg ctgagctgga gttggggagc 420
agaaaaaacac gcatctgaat caaggctctc ggagcctttg cttctgcctc caagaggcga 480
gggaaaatga ataccaggc agagcgagca agagagacc tcaaaaaacc ccagatgcc 540
ctggaatcaa gccctgtccc accaacgcca cgtggattga caggctatta gtcttctgt 600
aattaggatt ctgcctcaa atcttgtatc tttttcccc agaagattct cctccagcct 660
tcaccactgc cccctggcgc ttccctgcaa ggcttttgaa gaatcctttg cagagaagca 720
gcctcctttg gcaggggctg cagagcactc tgccctcccta ggccaggggc aaccaacaga 780
ggcgggagat gaggaggagc agcgcggctc tgcctgcgtg ccctgggcaa gcaccacaac 840
ctctctgggc cgtttgcaca ttcttacgc cagggatgtg ggcggtaaat gaaagagacc 900
agcacaacc agtgtcagct cccttctctg attcctaaaa tgtgatgccc aaagatgggc 960
cagcctcctg ctgtgccttc tctgggggga catttaataa gt                                     1002

```

<210> 177  
 <211> 998  
 <212> DNA  
 <213> homo sapiens

```

<400> 177
tggcgcctc ttccagataa caactctcct ctcttccct gccctcctgc tctcctgtt 60
cgcgctacat aacagactct gtggggcctt ggtttatgta tttccttctc tcccctactg 120
aaatacatgt gagcgatgct ggggcaggcc gactagaaga agcagactat ctgcttcttc 180
tccacctta gaatggtgct gggccagaa gaggcattgca gtgatattt gctgaataaa 240
tgaatgtcag ataaagtggg gtggggactc caggggaaag atttgtcatt ctccacctc 300
ccagttcagc ttaaagcaga gaagtgaag gtgcccacaa aggggtgtgt ctgggggtg 360
gggggtgggg atgttccaa atctccaagg cctggatttt aagcaagggt tgagatgcca 420

```

```

gcaagagggc ctggcattgc cagattgata gtctgcattt cagagaagga caaccccacc 480
tctgacctta gcccagagcc tcaacagcct gctcaaggag atccaccctt agtaggagga 540
ggcagccagg ccaggttcca gtccctgccca ccgcttgcca ggtgtgtctt gggcagcagt 600
tgcctttgct cgggtggtctt cagctttgcc ccctgccagg cacgtgctgg cctcctgcct 660
gcatcgtagc tcatggagtc ctctcagtc cctctgtatg ccctgcagca tccccagttc 720
tcagtgaaga gagtgtgctc tgaaagttaa gtaacttacc caaggtcaca caaggtctga 780
gtctcaaata catacaattt gaccccatag tctaaggctc tgaccgcaat ggaataagaa 840
attattttac cattctgagt ggcagtctct gaagactaca gcaataattg atgcctctca 900
gggggatagg tgtgtcactt acaggtgata gtgaggttgt cctcagcctc cctgctcttc 960
gttagacctc cctcctctc tctaccggg ccaagcgt 998

```

```

<210> 178
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 178
gcggaacacc tctgccgcac ctgcagcagc cttgctctat ttcttcacaa gottccccat 60
gacactgacc caaggctgtc tggccactac agctgctgat gatgattagc aataataata 120
ataataaacg aaatgccttc tgcttagatc atctttaatt tcccctccag aatgacattc 180
gactctgctt agagttacag gcagcccagc aattactgag cgcaaatacc gtgttcaccc 240
gcctcacctc atccacgccc ccacaacacc cagccctgag actggctcca cgatcacctc 300
cactttataa aataagatat caaactctga acagaacgga cgtctcaaaa aatgggcata 360
ttacatttaa accctcaatc tgttgggtat ttgagtgaat tggacatacc tccagggagt 420
cgggtggcag ggcgggtctt gaggacttcc tgggttggga tcctggctct gcaggactgc 480
gtgaccttgg tgagttactt ctatccctcc aaacgcgtg ttctccttca tagaatggag 540
atgaccacag ggccagattc ataaggttgt tccttgtaat acaggtgaat atccataccc 600
agcaactgct ggaccacctg tggtttcaag gataatttcc ctcccacgtc cccgtggccc 660
ttggaacctt cctctcctcc tgtctcccc tgcccccatc actttgtaat tgaaaagtca 720
tgattgctct cccaggtgta gcactgctca caggtcagat tgctgctct gacgtagtga 780
ctcagttgga tgcggttcag ctgtgtatga tcaactccct ccccttgaca aaaacattat 840
tttgcatcac agagaagttg atttctttca cacataaaag aaggcaaaaa gtggtgccta 900
aagggtcgtt acagcagctt caagaaatca ggaagaacct gggctccttc tgccttcttg 960
ttctgccaat atcaccccat ggctgccact tcatggccca ag 1002

```

```

<210> 179
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 179
ttgtgagtag ggcacgcagg gaagaaacct gttcaaccca gcccctgtgt agaaagacat 60
cagcagggcc tgcaaaagcc ctgattaaat ctcaacagtt tgcacctgga gccgccatct 120
tgaattgcag gtgaatatca gcctttgggt tgggtgtgtg gcccagatg atggtgggtc 180
caaattacat aggccaatat ccagagctgg gttaaaatga agcatttcga ggaaaaaat 240
gcaatgaaat ttgtttaacc ggtacttcag gcttttgagc acagaacagc gtccatccct 300
ccaaacacac actgaggata tacacttagc caggagggaa cataaggagg ggtggacaag 360
ccatgtttac taaaatctct cagtgtgtgc caggcatgtt catgtatatt caggaagaag 420
tgtcagtatt taagatcctc ggcccttgcc cgagtcccca acacgccttc ttgtctggag 480
aactgtaaat cttggaaaca tcttgcaagg ggggacacct cacagaaggc aggotttggc 540
tggtataaac agaatcgact cctctgcttc cttctgatgc acagtgaatg ggcaggtgga 600
agcatcgttg cttaaagagg aacccaaact ccaccacaga gctgctaatt ccttttggct 660
tgcagttatg cagagggcta aaaaatccaa cgaatcacia atcccctggt tgctaagtag 720
aaagaatatg ttttggtctg tgcgtgtccc ttccccagg aaaagattca agcagaggcg 780
gtccccacct ctcaacacag aaagcaacat ctctgattgc ctctagacac accttcatgc 840
tcgtggcact ttgggacctg ctgcccgtg gcttatgggc atggcttccc catcactctg 900
ggctccttggg aagagcctct ttcccagacc ccacctctgt gcctcatcac atttctccca 960

```

169/203

```

ggctattgac ttgttcaagg ttaaggatat aagagagtca ctgcagcagc cctacctggc 1020
tctgctctgc tgggggaagc cttttcagag cctgcctctt cctcagcatg aggggctgct 1080
cgggcccagt cccagaggcc atgctgggtc caggggaagg tggccgtcat ccccatctgt 1140
gttttctctt gcaggtaagt catgctccag cagtcgggag ggttgtgtga tgacacactt 1200
ggcagtttgg gagcaaaagc cgccacagta agacacaatt gattcattgc ctctcaaccc 1260
tctgctgggg tggactttca tgcgtggact tctgtcccca aagaggcttc tctgggtctg 1320
gaaagggccc tagccttggg tgggggaggg aaaggggtgg cggcttccag gtaccatctg 1380
gccaggaacc ggctccattg tctgtgcatg tagcttgac tgggctgcct gctccaaggg 1440
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ggctgagacc tactggcatg ggatggagga gtgcaggagg cttcccggga cctcgctagt 1560
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actcacggca tctcaccag ccattgtcac ccccccggc tctgtcgccc tcccatcac 1680
ctttctccca cccatcacct cacatcaagg tttagccag cgggaaccag gtttagactc 1740
caattacctg tgcgtgtggg aggttggatt gtgacatctt tggagggccg ggcttctgaa 1800
gogacatttg atttctggtg ctgaaatgtc aaagggctct gaggcaccgc ctagggcagc 1860
acgcggagca tccacctgcg tgcgcatcct gggctctctc tgggccactt ggtgctgggg 1920
acatgccggg agctgggtgt cagccctcct cctgcctcct cagtgtgtga tcttcacctt 1980
ctgcagctgc ctaccagaag ca                                     2002

```

<210> 180  
<211> 1002  
<212> DNA  
<213> homo sapiens

```

<400> 180
acaccttgac tttagcccag tgcaactgac tccacatttc tggctccaga actgtaagag 60
aatacatttg tgttttgtta agctagcaaa tttgcagtaa tttatgacag cgctatgaga 120
aaccaaaaca ccaggattat gcccgaagga tcttgatgcc ctccctctc tctgctctgc 180
agtgtgctgg agctcacagg gctctgctgc tgggagttag tatctagtcc aacactttac 240
cactcacc ccgaagctaa gggactcctg aaatcaggga ccagatgcat aatagggtgcc 300
caggaagtga gactgcctt cccagatta agaataaaga agacaaacta tccacggctg 360
ctgtgagcct ctcatcagac ctacgttct ccacagtggg cctgcctgt ctccagtatg 420
tggcctctgt gtcttcttcg cctccatcc ccacagtggg acgagaagtc atcaggaagg 480
caggggatct gcaggcagcc agtcagggt ctaattgcag ctggctgggg gaccatgggt 540
cagggctgcc acccctggc tctgtgcctt cacctgtgta acgaatgggg cactcacagc 600
ccctctcaag tggctcctgg gatgaagtga gaaggtgaca tatacaagt agttatacac 660
gttctgttct tgtcactcac cagtgtcac tgggtgggtc actgaactcc cctcagcgtt 720
tcttcttcca tctgtaaacc accagtgcaa acctttccca gatagtgtctg acccgaagca 780
ggaaccagtg cccctctgcc ctcaagtaagt ctgccagcag aggaagccca tagagggtct 840
tgggaaatga agccaacaga gtcaagaggg tcagatgatg agggacttca agtgccacct 900
tcattccatt ctttctgcaa atattacca cacacctacg tgacctcagg ctctgtgtca 960
ggctcctgggg atgtaatggg gtccatgaag aaacaaggtc cc                                     1002

```

<210> 181  
<211> 1002  
<212> DNA  
<213> homo sapiens

```

<400> 181
tccccagatt aagaataaag aagacaaact atccacggct gctgtgagcc tctcatcaga 60
cctcagcttc tagggcaggg tccctgcctg tctccagtat gtggcctctg tgtcttcttc 120
gccctccatc cccacagtgg gacgagaagt catcaggaag gcaggggatc tgcaggcagc 180
catcagggct ctaattgcag ctggctgggg gaccatgggt cagggctgcc acccctggc 240
tctgtgcctt cacctgtgta acgaatgggg cactcacagc ccctctcaag tggctcctggg 300
gatgaagtga gaaggtgaca tatacaagt agttatacac gttcctgttc tgtcactcac 360
cagtgtcac tgggtgggtc actgaactcc cctcagcgtt tcttcttcca tctgtaaacc 420
accagtgcaa acctttccca gatagtgtctg acccgaagca ggaaccagtg cccctctgcc 480

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170/203

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ctcagtaagt ctgccagcag agggaagccc atagagggtc ttgggaaatg aagccaacag 540
agtcaagagg gtcagatgat gagggacttc aagtgccacc ttcattccat tctttctgca 600
aatattcacc acacacctac gtgacctcag gctctgtgtc aggtcctggg gatgtaatgg 660
tgtccatgaa gaaacaaggt ccctgccctc atagagtggc ctgacatatg cccgaggcag 720
tcagcagccg agtgcgggag actcttgagc agagattgag tgtgttgata tctgtaggca 780
tcagcctggc tttgctgagt gagctatatc agagtggagg aggccagagg caaagtccag 840
actccactgg atcctggatt gaggggagaa ggggctgggc ggaggagcag cctgagcacc 900
tgcattctac tccaactggg tgctgatttg tcccatggc cccagcacc aggcagggtca 960
ccaagtaagc tcaagacaaa aatgatgagt gactcaacag tg 1002

```

```

<210> 182
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 182
ataaattgga tttcatcaaa aatttaaact tctgctccaa aagacactct taacaaaggg 60
aaaaagcaag ccacaatatg agaggaaata tttgcaaagc atctgataaa acatgtggat 120
ctaaaatatg caaggagaat aacaactcta ttttccacta aggaatgaat gactgtacaa 180
ggaccacatt ctaattagga gcttctgaac ccaaaggaat ttcagataag gggaaattta 240
ggcccaaagc caggagaagg ggtgagtagg gcttgatctc tgccctctgaa gggcagaggg 300
cgtggactat tcttggtctt taggggacag ctagagaaat gtgggtctca tggcgacaac 360
tctggactcc attggaagaa ccttctaaca gtcagggctc ccagagataa actagacaag 420
tcaccaagag aggcagtggg taccctcac aggaggggtg caaatcaaag ccaaggcttg 480
gagtggaaca tattaatatc attttcttat cctgtgattc ttagagtcct atctgtatca 540
ggggaaggca ggtgggttct agaactttct aaatgtgtcc ctgtgggttt ttccttctcc 600
agctacacac aaacttgggc ctaataagaa gtctatggca ttaaccacgc aggaatgctt 660
aatgcttata tctgacctca aaccaagact gtctccacag tgaacaaccc cgtcctgtcc 720
cctgggcgtc tccttagcaa atgccatcag tcaatggtgc agccatcttg gagcccttgc 780
catctataat cttctaccgc ccccccccca gctgattgtt ttctttgtat gtctccttcc 840
tggacattac ttattcttta cttttaaata tttgcttccg taaaaaaca aatgaatgcc 900
tcggacagat ttataaagaa cattcctgga gaggcgggtg gattaattat tcagcatcct 960
ctccctttgt aactatttat tgtctcatat gcatttatat gg 1002

```

```

<210> 183
<211> 963
<212> DNA
<213> homo sapiens

```

```

<400> 183
ttgcccaagt gatgttccat gtcaggctct agggctccctg cagggacaga gagggactaa 60
catttactta catgcctata gtatgtcagg catatacttg tgcctttata tatatcagct 120
ctgtttttgt cattaaaaa tccctgtaga aagataggca ctgctgtccc attttacaga 180
tggggaaacc caagctctga gtggttcagc aaacctggg tgcatacccc caccctgccc 240
ctgaaaacc aacaaaaaaa cgaaggccct gccttcctgg agctgacatt taggttgatt 300
ctgaaagtca gtaggccag attttcactc ttcatTTTTT ttgtttggaa tgagagagca 360
cacagctggg tcgggggaag gagcgagggt ctaggcctgc atccactcac cccaaaggaa 420
aggagtaggg gaccagtctg ctggacatgc agacagcgat tggagaaaag tcagcccagc 480
tatgaacccc attcctttca gtactgagcc aagagggatg gcatctgtca gagttgctgg 540
atttgggatt ttgcatcttg ccaagtgtcc atgaggaatt ggggaaactc tccccctggc 600
tggactgagg cttcagcaag cattgttgct gccagtggt gatcagctca gtgtccttgg 660
aaaagagcag aaagtgggat cacgaacata tcttctcctt tgcttccttc tctcactct 720
tcatcatcat catcatcatc atcatcaaat atggatctgt gaggtacct ctggggttga 780
aacttggttt tgggcaaaat ttgtgatgtt ctctctgccc aatccagcct caggctacaa 840
atgaatgtaa aaatctctaa tttagtgcc agtaacagaa aacagctcta cttatcttaa 900
gccaaaaaga gggacttctc agaggcatac taatggagga tggcaagagg gcctcacgtg 960
gaa 963

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171/203

<210> 184  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 184  
 gctcttctgc tgtggaggat ccatgccatt gacctaggca cccgttttcc acatattgag 60  
 cattgctgag cacctattct gtgccaggca ctgtgcttca gggccatggg ggatgctcca 120  
 agcggtaaaa tgcaaccaa gccccgaagg agctcacatt ctagtcatgt ccacaaagag 180  
 gtaataaatc cataaattgt atgtactatt ctagtacaaa taaaattgtg tcgtactgta 240  
 atgctgggta tccattttta aacggggggc atcggctgaa tctgggtcat tacagtagga 300  
 aatgcatata tataatcatt tactcatgaa tattaatgta tttaatgagg gtaaaagata 360  
 ttactttaag caaagtattc gtccagcta ctgttggatt tgttcattac tgtttcccat 420  
 gcagatatta cctgtgattt acctgcatat caagcatctg gaagtagctc aaatccacct 480  
 gtgggtaaat taggttagcc agtttggttg caaaaattac agtggttaact aatttccagg 540  
 gtatgcttgc agtcagtagt ttcatactta ggtacatgac ttgcattcac atcatctggg 600  
 taatggtgtg aacagagatt ttctttatgg tttttggaat acagtaagat aatgttaaga 660  
 taacgtaagt ctgttaacag tacctgggtc tgaactgtat ttataagggtg tatcataaaa 720  
 ccattacttt ggagtttgcc aatcttaaat tcagaacaat tcaaaaatga gccagaatct 780  
 agtttgcac attaccactt ataaaaataa ggatctgtaa gttggctgga taaaatatat 840  
 taaaaataa tgacttaagt ggctctggag ccagcacaaa agataaaaat tgggtatact 900  
 caaaattacc ttcaaaatat cttaagtcatt tcttaaaata catgtaaata tgccaactca 960  
 aaatacatcc aacaaaacta atatttttcc caatttggtg ga 1002

<210> 185  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 185  
 tcgacgtttc caaagtcatt gggcctatgg tttgtgagct tatttaggtt gtccccgggc 60  
 ccagcatcaa aagcattgag acacgtactg agggactctt ttctagcct ctcagtcctg 120  
 actgctcaag gaccaagtgg tacttcttgc ctgcgttcc ttaatgcttg cctaatatga 180  
 gctagtcttc tctgatcact ttttttttta atocaaagta ggtgggcatt gtcccaagag 240  
 cctttggaaa gcagctgctt ctacttagga ctccacagca tcattttgct ttgctctctt 300  
 tgtgggttaa attaccttcc attcgtgggtg ggtgtatgtc aggatcccca caagaaacag 360  
 agggacaccc aaattaggga catacttcag agggactaat gacaaaaggca tgggtgggag 420  
 tagaggggaa tacaaggag acttcaagaa tcttggcctt tattataaat gcaatgtatg 480  
 tccactatgg aaaatttggg agaaaaaagc aaactagaaa gaagaaaaac cacattgcct 540  
 gaattcctac tgcattggaga gaagcatcat aaacaccttt tggaggagtc tcttcttcc 600  
 ttctcccttt ctcttcttt gtatagagag gtctttcctg aggacttccc agaactttgc 660  
 agatccaaaa tcttaagaat ttgcagaggc agtgaggagt taacatgcac agctcaggga 720  
 atattctgct ttttatctgg aaccaggctc ggaacaagac tcttgccttt tctgtcctgt 780  
 gttttcatct tctctcagaa cctaacttt gagataagat ctttgactat tattaggcgg 840  
 gtgcaaaagt aattgtagtt tttggcatta tttttaatag aactgcttct gtgtcctcag 900  
 atctccatcg ttcattctct gataagtccc tgaaaatttc ctggccctt ggagctcctt 960  
 ccaggagtag aatgatcaca agagctgcc at 1002

<210> 186  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 186  
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 ctgaagctgg tgcattgccat gtttcagtaa gagaaaggag ggtgcctggg cttcgtctcc 120  
 acccaggtgc ctctcccca gcagctgcac caggccagct gagggggatt ttagcccgaa 180

```

tocagggttt  ctctacaga  agacaaggag  tttgggcaact  gccagaatta  gaagaacaga  240
aagaaaatgt  tctggatttc  tcatcaaagt  cccctagcct  gagaaatata  actaaattca  300
cccttaggtc  atcttacaat  ctgtcctgcc  ccagtgttcc  ccactcaggg  aactgctcca  360
cccacatcct  ggtcccaaaa  ccagaggcct  gggagtcacc  cttgacattt  cctcccctac  420
acccctaata  aatcaaatac  tgtttatcct  gccctctgag  agtctgcacc  gaaatctctc  480
tctctcctt  cccacctacc  agtggccag  cagctttacc  atcatgtctc  acggatctct  540
gcaccgctcc  caactggcct  gtgcgttcac  tccctgcccc  tccctccagcc  ctgtgtacac  600
tcccttcac  catcctttct  atactctcct  caatcctatc  tgcaccctcc  ttcaaccctg  660
tctgtactct  cctccaatcc  tgtccacaca  ctccaaacaa  agtcataatt  ccaagacaaa  720
tttgaccatg  ccactttctc  ccacagctct  ccaccacctc  caggatccca  tcctcagtgt  780
tagccagaca  ctcccaaggc  cttgtgatct  gccctgccta  tgtctccagc  ctcatcctgc  840
aactccccct  acactctgtg  ttctggccat  caaaccaatg  ggctcctctt  cctgcacccc  900
catccactct  tgcacatcct  gcactctatg  tctgaacagc  tcgggtttctc  ttcttttctt  960
ctggcacatg  tctgctctac  ctgcagggtca  tcttagatgt  ca  1002

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```

<210> 187
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 187
aaaagggaat  ttattggctc  atgtaactga  acttcaacat  tttacagaat  ctcataggct  60
ccaatgggct  catacgtcca  tccccaaacc  aatcacagt  actgagggat  tatccaagga  120
tcacactggc  cactttcaca  ggttttatcc  cttaaaggaa  tcacaggtaa  tagatgtggg  180
gctgcagaaa  tgcaacatgc  acttttcctt  gaaactgcat  cccctttccc  tgaagatgaa  240
gcttgaaaga  actotaagag  gttaagcatg  gagctgatgg  gcaagccaca  ggagaaaga  300
gtagctgtgc  agccaggctc  ctggccaggg  agggcagata  aggaggggag  gcaaagtgtg  360
gtaaacagga  agctaatact  tgggcaagaa  tcattttctt  cagcatcctg  acctctccta  420
aaatgttctc  cactgggtcc  tgctaggaca  aaggaattac  caccagacta  gagtcaggag  480
tccctgggctg  gttctgctgt  agtgacacag  gacagggtgg  ttgcctgggt  tgggccacag  540
cctcctcccc  tgttgatgag  catgttggtt  gttccagcac  catgtcagcc  ctagaaatct  600
ctgaattctt  gaccagatca  gtaattgctc  tcttgcggtt  acttttcctt  caaataaaga  660
gattggcata  caggggagga  gccagtcaca  gacggcatgc  ttggctcagg  ttccagaacc  720
cagaaaccag  acaagagttg  ggaaaccatg  atggtggagg  aggggtgtgc  actccttact  780
agtgcctaata  ctcttcgaga  cactaatgtt  tcagtattat  ccacagattc  tgatgccagg  840
cagccagat  gactggggtc  agttattagc  atgcttctct  gaggtgggtc  ccagggtcag  900
gctacctgca  gtctggctgg  atgggcccct  caccacactt  gcttctggga  agctgggttt  960
ggggttgcca  caatctctga  aagaatcact  aggccaccct  ct  1002

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```

<210> 188
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 188
ttcacagggt  ttatccctaa  aggaaatcac  aggtaataga  tgtggggctg  cagaaatgca  60
acatgcactt  ttcttgaaa  ctgcacccct  tttccctgaa  gatgaagctt  gaaagaactc  120
taagagggtta  agcatggagc  tgatgggcaa  gccacaggca  gaaagagtag  ctgtgcagcc  180
aggctcctgg  ccaggagggg  cagataagga  ggggaggcaa  agtttggtta  acagggaagt  240
aatctatggg  caagaatcat  tttcttcagc  atcctgacct  ctccataaat  gttctccact  300
ggtccctgct  aggacaaagg  aattaccacc  agactagagt  caggagtccct  gggctgggtc  360
tgctgtatga  cacaggacag  gtggcttgcc  tggctctggc  cacagcctcc  tcccctgttg  420
atgagcatgt  tgggtgttcc  agcaccatgt  cagccctaga  aatctctgaa  ttcttgacca  480
gatcagtaat  tgctctcttg  acgtttactt  ttccttcaaa  taaagagatt  ggcatacagg  540
ggaggagccc  agtacagacg  gcatgcttgg  ctccaggttc  agaaccacga  aaccagacaa  600
gagttgggaa  accatgatgg  tggaggaggg  tgtgccactc  cttactagt  cctaactctc  660
tcagagacact  aatgtttcag  tattatccac  agattctgat  gccaggcagc  ccagatgact  720

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173/203

```

ggggtcagtt attagcatgc ttcttgagg tggttcccag gtgcaggcta cctgcagtct 780
ggctggatgg gccctgcacc acacttgctt ctgggaagct ggttttgggg ttgccacaat 840
ctctgaaaga atcactagga caccctctga gtgggtcctt ctgtaggaat tatggataaa 900
attgttccac tagtcttacc ttcttgggga acccttcctg gattcccagg ctgggctggg 960
tgtccctgca gcctagcccc acagccctcc tgcttctctt tc 1002

```

<210> 189  
<211> 961  
<212> DNA  
<213> homo sapiens

```

<400> 189
tgacctctcc taaaatgttc tccactgggc cctgctagga caaaggaatt accaccagac 60
tagagtcagg agtcctgggc tggttctgct gtatgacaca ggacagggtg cttgcctggt 120
ctgggccaca gccctcctccc ctggtgatga gcatgttggg tgttccagca ccatgtcagc 180
cctagaaatc tctgaattct tgaccagatc agtaattgct ctcttgcggt tacttttctt 240
tcaaataaag agattggcat acaggggagg agcccagtac agacggcatg cttggctcag 300
gttccagaac ccagaaacca gacaagagtt gggaaaccat gatgggtggag gagggtgtgc 360
cactccttac tagtgcctaa tctcttcgag acactaatgt ttcagtatta tccacagatt 420
ctgatgccag gcagcccaga tgactggggt cagttattag catgcttctt ggaggtgggt 480
cccaggtagc aggctacctg cagtctgggt ggatgggccc tgcaccacac ttgcttcttg 540
gaagctgggt ttgggggttg cacaatctct gaaagaatca ctaggccacc ctctgagtgg 600
gtccttctgt aggaattatg gataaaattg ttccactagt cttaccttct tggggaaccc 660
ttcctggatt cccaggctgg gctgggtgct cctgcagcct agccccacag cctcctgct 720
tctctttctc atcacagtct tgttatctct accaactgta ggccctgccc actgatggtg 780
tgaataaagg gactgggtct ctctagcacc tagcatagat ctgatacata gtgggtgatc 840
tctattgaat gaacgatgaa tgaatgaatg aatgaatata tttagataat tcagattaact 900
ctttctagct cagcagtgta aagcaggaag acatgctgtc aatatgattt agggcaagtt 960
t 961

```

<210> 190  
<211> 1002  
<212> DNA  
<213> homo sapiens

```

<400> 190
aacgatgaat gaatgaatga atgaatacat ttagataaatt cagattactc tttctagctc 60
agcagtgtaa agcaggaaga catgctgtca atatgattta gggcaagttt tcaaactctt 120
ctggacctca gttttacctc ttgaaaaata aatataataa tttgtcctta cttcatgaga 180
ctattttgaa gattaaatga gataatgtat acactactac tctactgtct tacttgaata 240
ttcctaggtc cttgggtgcta cattaggcta catagaatgt atttaaagta atagagtgg 300
atttaataaa tattcatttt ctttccccag aactacctta aattaatttg ttgaaaggac 360
agatggatgg atggttgatg gaagtagcag gcttccagca gcaggggatg gagtgagtgt 420
gtggataccg ctggatcagc agaaggttat accattttag agtaactatc tcggacttcg 480
gagagttcct ggggatgaag cgtttggctt taattaaagt ctacgacacag tgttaaagtc 540
cattttattt taggtcataa ttaacactaa tgagatgagt ggattacaaa gagcacacat 600
tttgagaaag tgaaaaacaa catctgagct tgggtggtttc cattttctgt tttccccctc 660
ccatgctctg ttcaattaaa agttttgaga aaatattaca accatactcc ttgtctttgt 720
ggtaatgaag cttattaatt tgaatgtgat gaatacaata ttccactgac ttttttattc 780
ccttatctac aaaagtttaa aataatggac caattaaacc aggagagaag aatgcagggt 840
ttgcctgggg atccaattca gcaaccagag aactgaaaga acaaaatttt ttgacggagt 900
ctgggccaga cttcatcctt tacctatagc tgacaaacag taagtcaaat tgggcagatg 960
tggaccagcg cagaacacat actatattga ggatcgaaag gc 1002

```

<210> 191  
<211> 1002  
<212> DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 191

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gtgtaaagca ggaagacatg ctgtcaatat gatttagggc aagttttcaa atctctctgg 60
acctcagttt tacctcttga aaaataaata taataatttg tccttacttc atgagactat 120
tttgaagatt aaatgagata atgtatacac tactactcac tgccttact tgaatattcc 180
taggtccttg gtgctacatt aggctacata gaatgtattt aaagtaatag agtgggtattt 240
aataaatatt ctttttcttt cccagaact accttaaatt aatttggtga aaggacagat 300
ggatggatgg ttgatggaag tagcaggctt ccagcagcag gggatggagt gagtgtgtgg 360
ataccgctgg atcagcagaa ggttatacca ttttagagta actatctcgg acttcggaga 420
gttcctgggt atgaaggttt ggctttaatt aaagtctcag cacagtgtta aatgccattt 480
tatttttaggt cataattaac agctaattgag atgagtggat taaaagagc acacattttg 540
agaaagtgaa aaacaacatc tgagcttggt ggtttccatt ttcgcttttc cccctcccat 600
gctctgttca attaaaagtt ttgagaaaat attacaacca tactccttgt ctttgtggta 660
atgaagcata ttaatttgaa tgtgatgaat acaatattcc actgactttt ttattccctt 720
atctacaaaa gtttaaaaa atggaccaat taaaccagga gagaagaatg cagggtttgc 780
ctggggatcc aattcagcaa ccagagaact gaaagaacaa aattttttga cggagtctgg 840
gccagacttc atcccttacc tatagctgac aaacagtaag tcaaattggg cagatgtgga 900
ccagcgcaga acacatacta tattgaggat cgaaaggcca ggttcagac cgtcctctaa 960
tattttctta gtgaatattt gttggatgaa tgcattggatg gg 1002

```

&lt;210&gt; 192

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 192

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cttacttcat gagactattt tgaagattaa atgagataat gtatacacta ctactcactg 60
tccttacttg aatattccta ggctccttgg gctacattag gctacataga atgtatttaa 120
agtaatatag tggattttaa taaatattca ttttctttcc ccagaactac cttaaattaa 180
tttgttgaaa ggacagatgg atggatgggt gatggaagta gcaggcttcc agcagcaggg 240
gatggagtga gtgtgtggat accgctggat cagcagaagg ttataccatt ttagagtaac 300
tatctcggac ttcggagagt tctgggtat gaaggtttgg ctttaattaa agtctcagca 360
cagtgtttaa tgccatttta ttttaggtca taattaacac taatgagatg agtggattac 420
aaagagcaca ctttttgaga aagtgaaaaa caacatctga gcttgggtgg ttccattttc 480
agcttttccc cctcccatgc tctgttcaat taaaagtttt gagaaaatat tacaaccata 540
ctccttgtct ttgtggtaat gaagcatatt aatttgaatg tgatgaatac aatattccac 600
tgactttttt attcccttat ctacaaaagt ttaaaataat ggaccaatta aaccaggaga 660
gaagaatgca gggtttgctt ggggatccaa ttcagcaacc agagaactga aagaacaaaa 720
ttttttgacg gagtctgggc cagacttcat cccttaccta tagctgacaa acagtaagtc 780
aaattgggca gatgtggacc agcgagaaac acatactata ttgaggatcg aaaggccagg 840
ttccagaccg tcctctaata ttttcttagt gaatatttgt tggatgaatg catggatggg 900
tggatgaata gatggatgga tggacagatg gacggagaga gagatggatg aatggattgt 960
tgg 963

```

&lt;210&gt; 193

&lt;211&gt; 939

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 193

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gcaggcctgt gaacctgaca catggtccag gtgtctccct gaggacttct ggaagtctcc 60
ccacctctct gtggtccttt aggcattaac accacctgt cactgtgtct tctgaggcag 120
tctggaagtt cataccccac aatctctgtg taccttgtcc ccattctgt tctctgcatt 180
gcagatgggt taaaacacac acacatacac gcgcaaaatg ttgttccttt tcttaaaacc 240
cattgtggcc aggctagaca aatccttaac acggtctaca atattctgca tggcatggcc 300
cctgggtgcc tcccaacctg atctgtcaca caccacctcc accttgcct gttccctggg 360

```

```

ccctagcaact aaccttttgggt tcatttccctag acacctttttc agcacttagg cccccacagc 420
cctcagaacc tttacacttg ctgtctcttt tgctttaaag tgttcttgcc ccacctacca 480
cctagttaat gccttttcct ccttcagctc ttagttgaag catcacttcc tcaaggaggg 540
cagccctgat gaaactcatt atgcaaactc cagcctgggt tgggccttat ctttatgctg 600
tcatggccct gagtatttct cttttatggc accaatcacg gcttatatga tatacttatg 660
ctattatttg agttatgtct gtctccccc gtagtccact agtattagaa tcattgattt 720
ttaatcattg tatccctagt gcttagcaca gagcctggct cataatagat gcttaataaa 780
tatttgttga ataaatgaat gagtgaatga ataaatgcct cattcaagag ctttggtct 840
ttctgtacta ctacattact tctatttttt agctcttaat tctcaaagca ctttctttgt 900
gctgggctta tgctgggagc ttagacagta aagcttaga 939

```

```

<210> 194
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 194
ttacatccac aggtttgatt ataaatgtgt gtattgaatt ggaattttctg ttgaaattct 60
gatcccttct agacaaagaa ggtaaaaaatt gaaacatgtc aatggatata taaatatcat 120
tactcactgg ctttatttgc aaatggcttt ccattgacaa cagttacatt ttgttcaaag 180
caacaaatga ttggcgctga caatccacag gaacatgggtg cagtcattaa tgaatgtgct 240
cattattcct ccctgccggg aggcacgcac tcccgttctc cagcctgttt taagcagaca 300
gacctacatc tgcacctgtc agcttggaa cctagtaggg gagggggatg ctgatgtgat 360
ggagaatgaa gaatgggccc tgcaggctga ctttttggga gtagtaggtc tgaaatttat 420
cccaaaggac atggaatcct ggaagcaggg ttcaagatcc tccaaaatt gatctccag 480
gatgcttgga atgattgttc ctgagggttt tgtaaaatgc caggggaaaa ccaggaagct 540
tctctccagt tgtcttgct ccttctctc cagtctccat ggagctgact ttgagaatta 600
actcctgagg gacagagacc ctgggatgga gagccagccc tgcctggattc cacaaggtgc 660
tgcttaaagc acaacacctc ttcccaatga caggttctga aagaaggcct tgtagctaga 720
tgcacagagg gttttgtttt gttttttttt ttttaacctt tcagcatctg tctaaaattg 780
ctctgggctg ggtacagtgg ctcccacctg taatcccaac actttgagag ctgaggcagg 840
aggatcgctt gagcccaggc gttctagacc agcctgggca atatagttag atctctatgt 900
ctagaatggt ttttaattag ctgggcttgc tgccctgcacc tgtaattcca gctacttggt 960
aggctaaggt ggggggatca ctcgagccca gggggctgag gc 1002

```

```

<210> 195
<211> 1002
<212> DNA
<213> homo sapiens

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```

<400> 195
ccttctagac aaagaaggta aaaattgaaa catgtcaatg gatatactaaa tatcattact 60
cactggcttt atttgcaaat ggctttccat tgacaacagt tacattttgt tcaaagcaac 120
aaatgatttg cgctgacaat ccacaggaac atgggtgcagt cattaatgaa tgtgctcatt 180
attcctccct gccgggaggc atcgactccc gttctccagc ctgttttaag cagacagacc 240
tacatctgca cctgtcagct tggaacccta gtaggggagg gggatgctga tgtgatggag 300
aatgaagaat gggccctgca ggctgacatt ttgggagagt aggttctgaa atttatccca 360
aaggacatgg aatcctggaa gcagggttca agatcctccc aaaattgatc tcccaggatg 420
cttggaaatga ttgttccgag ggttttgtaa aatgccaggg gaaaaccagg aagcttctct 480
ccagttgtct tgccctcttc cgtctccagt ctccatggag ctgactttga gaattaactc 540
ctgagggaca gagaccctgg gatggagagc cagccctgct ggattccaca aggtgctgct 600
taaagcacia cacctcttcc caatgacagg ttctgaaaga aggccttgta gctagatgca 660
cagagggttt tgttttgttt tttttttttt aacctttcag catctgtcta aaattgctct 720
gggctgggta cagtggctcc cacctgtaat cccaacactt tgagagctga ggcaggagga 780
tcgcttgagc ccaggcgctt tagaccagcc tgggcaatat agtgagatct ctatgtctag 840
aatgtttttt aattagctgg gcttgctgcc tgcacctgta attccagcta cttgggaggc 900
taaggtgggg ggatcactcg agcccagggg gctgaggctg cagtgaacca tgattacacc 960

```

176/203

actgaactcc agcctgggca acagagtgag accctgtctc aa

1002

<210> 196  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 196  
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 cacaaatgcc aaatcacaga ctacagcttg gacatatgag gacagcacag actttggagg 120  
 caggtagatt ttgggttgtc acgcagacac ccactactat gagacctgga ttcccttctg 180  
 acgttatttg ggataagaag tggcacctca ccatttctag gaaatagtag gtaagtcttt 240  
 ctggttgcca ctgaggtgac tcacctgaga cacagttgct cctaaagtcc aagggttagga 300  
 gacaatccag aaggggagct gtctgtgaag tcagaattct tggaagaatg taagtcttta 360  
 cacagtaaca gcaaagcaga cagtgggaac cactactctg ccttcttgca tcattctttc 420  
 ctgaaatcac cagaaagcag tgagggatta agtctaattc ctggcacctg accttataac 480  
 taacagatgc tcagtattac cgtgttgatg ggacctcact gggaatggtt tgtgtgcagt 540  
 acaaaagggc aatagatgaa actttgggac gggagcccag gaaaatggct gagaggagag 600  
 cttatgccta gcttatgcat gagcttgcaa aaagggagaa tacacgggag ggaagatcag 660  
 caacagcatg agttttataa ggcagagagt tgttgggaag gaagcagcag ggagagggga 720  
 aggagtaagt agaaacctag aagagataca gctaagataa gccaaagaaa caaagtattg 780  
 acttaccaga aacatggaag tcttcctgct tctaatttag ttccgcatac ctggatatgt 840  
 gaatgcctaa aatcccatta agcccagtggt gtttaattatt acacttgcta gggccccaga 900  
 ggagaggaaa cacagtaagt cagaaaaacc tctgggcagg tgaatttctc aggttttctt 960  
 ctgggcagat gggatctgga atggtagcgt ggcacctggg ta 1002

<210> 197  
 <211> 969  
 <212> DNA  
 <213> homo sapiens

<400> 197  
 cctttccaat attaaaataa tattaacatt ggtaatagtg gtactaaaca acttaggggtg 60  
 tttttttttt catttaatag tatattttta gtatctttcc agggaaaagat acatggatgt 120  
 gccacattat ttttaatggc tcacatggta ctccctttat gtatgcacta taatttatgg 180  
 aaccagtttt ctccaccgat agcatgtaag ttcttttcagt cttttactgt tataaacgaa 240  
 tggatgcaatg aatatccttg tacatatata tttgtgcgca tatgtaggta tccttacaag 300  
 tggaatttct gaataaatgg atatatacaa tttattttatg aatttacctt cctacaagtg 360  
 attcaagaga gtgtctttgc tccacagtgt tgtcaatata gtgtattctc aaaatctgac 420  
 accaatatgt gtgaagtgcc tgctctgttc ccacacttta cacaggttct cttatttgca 480  
 gttaagttta ttttaagaaga ggaaactggg cctcatggag atctaggaaac ttgcccagg 540  
 acaggtctct gtgactctaa gaggtgcaatc ttcccttttc cccatgtcaa gcacctttcc 600  
 ccaccaggct cactgctgac aatccagtgt acgaagaagg gaaattaccc ccacagagcc 660  
 caaaagttta ggacatgccg acagcatcac tcttttgccct cctcattctc tctttcattt 720  
 ccagaacatt tgctcactca gtgctgccc gtgatactta gccagcctga ttacccatct 780  
 aataatttct gatactaata taaaaccttc ccaaagacaa atataactga gacgcactcc 840  
 agcttaccat agctttcctg gtggtacagt ttccagggac atttactgt gtcaaagcag 900  
 ggaccacata tgttccagac cagcttggtg ggtttttcac tgggaagtga agacaaattg 960  
 ttgtccctt 969

<210> 198  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 198  
 ttcccacact ttacacaggt tctcttattt gcgttaagtt tatttaagaa gaggaaactg 60

177/203

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ggcctcatgg agatctagga acttgcccaa ggacaggtct ctgtgactct aagagtgcaa 120
tcttcccttt tccccatgtc aagcaccttt ccccaccagg ctactgctg acaatccagt 180
gtacgaagaa gggaaattac cccacagag cccaaaagtt taggacatgc cgacagcatc 240
actcttttgc ctctcatttc tctctttcat ttccagaaca tttgctcact cagtgtctgcc 300
cagtgatact tagccagcct gattacccat ctaataatth ctgatactaa tataaaacct 360
tcccaaagac aaatataact gagacgcact ccagcttacc atagctttcc tgggtgtaca 420
gtttccaggg acatttcact gtgtcaaagc agggaccaca tatgttccag accagcttgt 480
tgggtttttc actgggaagt agaagacaaa ttgttgtccc tttgaaaaag catctttcat 540
ctctccatct atctgcgac taaagcaatg gggctctttc tgtatgtctt tcaaattggtc 600
tacctgaca cactgtttct ctgagctgcc gagagaatat gccatgagat gttgccagtg 660
atggttacac tcagctagca gaagattagg gactggttaa acctttggag aaattgcctt 720
gggaaaagag gaaataaaaag caaatattac tatgaaacat agagattacc aggtaggagg 780
aggagagagg tggagggagg ggtaggagtg gaagggaagg agggaggcag aaagagggaag 840
gcagactggt ggaaaataaa ccgtgcactt tagaacagca ggaaggaggg cttggaagcc 900
tggttttctg gctttgaatg accgcctagc gcttgccggg gcgccagggt gctgtgagga 960
tgtgggcaga gggcgagtcg gaagggtccc agacactggg aa 1002

```

<210> 199  
<211> 1002  
<212> DNA  
<213> homo sapiens

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<400> 199
gagaatatgc catgagatgt tgccagtgat gggttactct agctagcaga agattaggga 60
ctggttaaac ctttggagaa attgccttgg gaaaagagga aataaaagca aatattacta 120
tgaaacatag agattaccag gtaggaggag gagagaggtg gagggagggg taggagtgga 180
aggaaggagg ggaggcagaa agaggaaggc agactggttg aaaataaacc gtgcacttta 240
gaacagcagg aagggaggct tggaaagcct gttttctggc tttgaatgac cgcctagcgc 300
ttgccggtgc gccagggtgc tgtgaggatg tgggcagagg gcgagtccga agggctccag 360
acactgggaa tagtggtggt cgtgtgtctc tccctgaaac ttttgacta cctcggactg 420
attgacttgt cagacggtaa gcgaaccctg gagcttcccc gttttctgtg aatgtgtttt 480
tgtggcttcg gttgtctgta cgagtogttt cgaaaatgca cggaatgag ggcggagacc 540
cgagagattht gaaaaagccg ggctgaaaca gcgtggtatt ggtccccgcc tccccagtcg 600
cgccccagtg ctgcgtgtgc cgtcgtgtct aaatgtggtg cgctgggga gtgcgggagc 660
caggaaagtt ggggtctctg ctccggccct atgagcatgt gagtcttgat ggattattag 720
ctatgggtga ggcacagaca acacatcaca attctctctg aagctgtctg gtaactacgt 780
atattgttga tggaaagccag tgacttttaa aagccattat gttgattaac ttttttaaag 840
aagtttagga gattatatgg aggtaaaaac ctttgtaaaa tgctaatac agtgtctgac 900
aattagaaca catttaataa atgtcagttt ctttgcctca cccttataag aacccttatt 960
ccaaagccac ctctcagct ctgacttcag ctccatttct ta 1002

```

<210> 200  
<211> 928  
<212> DNA  
<213> homo sapiens

```

<400> 200
tgctgtgaca gtcgttttga aaatgcacgg aaatgagggc ggagaccoga gagatttgaa 60
aaagccgggc tgaaacagcg tggatttgg cccgcctcc ccagtcgcgc ccagtgctg 120
cgctgtccgt cgtgctgaaa tgtggtgcgc ctggggagtg cgggagccag gaagttaggg 180
tctctgtctc cggccctatg agcatgtgag tcttgatgga ttattagcta tgggtgaggc 240
cagcacaaca catcacaatt ctctctgaag ctgtctggta actacgtata ttgttgatgg 300
aagccagtga cttttaaaag ccattatggt gattaacttt tttaaagaag tttaggagat 360
tatatggagg taaaaacctt tgtaaaatgc taatcacagt gtctgacaat tagaacacat 420
ttaataaatg tcagtttctt tgctcagacc cttataagaa cccttattcc aaagccacct 480
cctcagctct gacttcagct ccattcctta gtgagaatgg ggttataaat ccaggttaac 540
ccgattgttt aggattagaa agtgatttgg tttccaacgt tgaaggagtt caagaaacaa 600

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178/203

```

agagttttat ttttcctcct tatgagatat tgttccaaat agaacacagt ttgtctagat 660
gattttttgtc acttaaaatt aggtccagg aaagattcca aatttcatga gcaattgggc 720
tcataaaaca agatcaaact ccaatagtgt atatccaaag tatgtataat gtgtattcgg 780
tgtatattct tccaccactg catggtgtag acagaatttc tcttccaagg ggcaccacat 840
gacaaaaccg tacataataa tgaaatgcat ttgtagacaa aggactagct aaaataccaa 900
ctgaaagtgg gaagaccaga aactgaag                               928

```

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<210> 201
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 201
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ggtaggagga ggagagaggt ggagggaggg gtaggagtgg aaggaaggga gggaggcaga 120
aagaggaagg cagactggtg gaaaataaac cgtgcacttt agaacagcag gaaggaggcg 180
ttggaagcct ggttttctgg ctttgaatga ccgcctagcg cttgccggtg cgccagggtg 240
ctgtgaggat gtgggcagag ggcgagtcgg aagggtcca gacactggga atagtgggtg 300
tcgtgtgctc ctccctgaaa cttttgcaact acctcggaact gattgacttg tcagacggtg 360
agcgaaccct ggagcttccc cgttttctgt gaatgtgttt ttgtggcttc ggttgctgtg 420
acagtcgttt cgaaaatgca cggaaatgag ggcggagacc cgagagattt gaaaaagccg 480
ggctgaaaca gcggtggtatt ggtccccgcc tccccagtcg cgccccagtg ctgcgctgtc 540
cgtcgtgctg aaatgtggtg cgccctggga gtgcgggagc caggaagtta ggtctcctg 600
ctccggccct atgagcatgt gagtcttgat ggattattag ctatgggtga ggccagcaca 660
acacatcaca attctctctg aagctgtctg gtaactacgt atattggtga tggaagccag 720
tgacttttaa aagccattat gttgattaac ttttttaaag aagtttagga gattatatgg 780
aggtaaaaac ctttgtaaaa tgctaatac acgtgtctgac aattagaaca catttaataa 840
atgtcagttt ctttgcctca cccttataag aacccttatt ccaaagccac ctccctcagct 900
ctgacttcag ctccattcct tagtgagaat ggggttataa atccagggtta acccgattgt 960
ttaggattag aaagtgattt ggtttccaac gttgaaggag gttcaagaaa caaagagttt 1020
tatttttctt ccttatgaga tattgttcca aatagaacac agtttgtcta gatgattttt 1080
gtcacttaaa attaggctcc aggaagatt ccaaatttca tgagcaattg ggctcataaa 1140
acaagatcaa actccaatag tgtatatcca aagtatgtat aatgtgtatt cgggtgtatat 1200
tcttccacca ctgcatggtg tagacagaat ttctcttcca aggggcacca catgacaaaa 1260
ccgtacataa taatgaaatg catttgtaga caaaggacta gctaaaatac caactgaaag 1320
tggaagacc agaaactgaa gtgtaagatg aggtaaagcc tggagtaaga gtcaagaaat 1380
ccactttcta tcataatct gtctcgggtt aatgttggtc aagtcatttt ttaaaaaatt 1440
ctaggctctg gtttccttat gatgacttta gatctctgtt ccttggaatt ctagagtgat 1500
ccaaaggttt ctttgaattc agttttgtgg gttgagacgg gcagccagac tgtgagtccc 1560
tcagctctgc ttcaaccaga acagctccac ttactgttc agcatgttag ccctgtatgt 1620
aaggatgttt tttagcttta gctaaaattt agtgactcta tgacctaaag gccctgcttc 1680
cctgagattt tgaaagctga agcacattcg gaaaaatttt tcttccttaa aaatcacctg 1740
aaatctgaca atctggaaga ctagttctgt ctgctccagc ccttgggtccc ttagatgtgc 1800
ttttctgaag atccaaactc aacctgccag tcaatatacc aactgagcag agcccctgtt 1860
ctccaccaga tttcaagaga acatgttcca ttctgttcca gagcttcaga gcagcttccg 1920
ctaagattgc acattaatgc aacagcgtcc tattttcttt gtttcttttt tttttttttt 1980
tttttttttt gatgagacag gg                               2002

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<210> 202
<211> 895
<212> DNA
<213> homo sapiens

```

```

<400> 202
atttttctc cttatgagat attgttccaa atagaacaca gtttgtctag atgatttttg 60
tcacttaaaa ttaggtccca ggaaagattc caaatttcat gagcaattgg gctcataaaa 120
caagatcaaa ctccaatagt gtatatccaa agtatgtata atgtgtattc ggtgtatatt 180

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179/203

```

cttccaccac tgcattggtgt agacagaatt tctcttccaa ggggcaccac atgacaaaac 240
cgtacataat aatgaaatgc atttgtagac aaaggactag ctaaaatacc aactgaaagt 300
gggaagacca gaaactgaag tgtaagatga ggtaagccct ggagtaagag tcaagaaatc 360
cactttctat ccataatctg tctcggttta atgttggtca agtcattttt taaaaaaatt 420
ctaggctctg gtttccttat gatgacttta gatctctgtt ccttggaatt ctagagtgat 480
ccaaagggtt ctttgaattc agttttgtgg gttgagacgg gcagccagac tgtgagtccc 540
tcagctctgc ttcaaccaga acagctccac tttactgttc agcatgttag ccctgtatgt 600
aaggatgttt tttagcttta gctaaaattt agtgactcta tgaccctaag gccctgcttc 660
cctgagattt tgaaagctga agcacattcg gaaaactttt tcttccttaa aaatcacctg 720
aaatctgaca atctggaaga ctagttctgt ctgctccagc ccttggtccc ttagatgtgc 780
ttttctgaag atccaaactc aacctgccag tcaatatacc aactgagcag agccctgtt 840
ctccaccaga tttcaagaga acatgttcca ttcctgttca gagcttcaga gcagc 895

```

&lt;210&gt; 203

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 203

```

ctctaaaatt tcaccctctg ttctgtacac caagtacctc agcaagtaat ccagttccag 60
atgggatctg cagtctgcc aatagtcttt accacacata ggctcttatg ctagagccct 120
taccatatgg tccaaaatgc cttttttaat gtgtatttga tatggagact ctgttcacaa 180
tttgagtact aaagagagaa taccacctcc tagtagatac accaggacca atgtaatgct 240
gtcattctaa ggagagcagt ggaacatctc caaagaaccc atctgtagtc ttccttcggc 300
ccttgatctt attcctattt tttttttaag gttttttttt ttttcttcga gactaaatct 360
cactctatca cccaagctgg agtgacgtgg catgatatca gttcattgca acctctgcct 420
cccggactca agcgattctc ctactcagc atcccaagta tctgggacta caggcataca 480
ccactatgcc cagctagtgt agtggtgtgt tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 540
tgttagtaga gacagggttt caocatgttg ccagggtgg tcttgaactc cagagctcag 600
gogatccacc tgccgaggcc tcccaaagtg ctgggattac aggcagagc cacagcgct 660
ggccaatctt ttagggataa ttttagaaca gtatacagat attgagccaa gagtcaaaag 720
agctgggttg caattctggt tgtgccattt atcagttgtg tgaggtggga caagtctctt 780
tttctcccta gctttctctt tctcatttta taaaataaag aaatgagaat gatagttgta 840
ttaatttctg aggactgcca gaacaaatta ctacaaactg ggtggcttaa aacaacaaac 900
atattattct acatagttca ggaggctagc agtttgaaat caagttcttg acaaactccc 960
ctagagtcta aagtctctag agaaggattc ctcttgcct ct 1002

```

&lt;210&gt; 204

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 204

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gagcaagcac tgcagccatc ctcttttatt tccctcaagg caatatccaa ggattaaaaa 60
gtcagagccg tctgcagatt cctcctctct accttgccct gcactttttg tgcccttcct 120
cttccccctc tccagcccca aacctctctc ctgatccacg gtactcctcc tgggatgtcc 180
actggggctg atcctcccc attctcccc tgagttccct gctgttaatc tgtctccagc 240
aaaattaacc tagcctatgt cccatgccct ctggactctg gctgctogtc aatcactctt 300
aaaaatccgg tttctcctta ggcaatcatt ttgttttgat tttatgtgta aaaaaacctg 360
agtaaatttt tttttttttt gagatggagt cttgctctgt tgctcaggct agagtacagt 420
ggcatgattt ctgctcactg caacctccgc ctcccggtt caagcgattc tcctgcctca 480
gcctctctga gtagctggga ctacaggtgc ccaccaccat gcctggctaa tttttgtatt 540
tttggttaga acagggtttc atcatactgg ccaggctggg ctcaaactcc tgaccttgtg 600
atccacgcac ttcggcctcc caaagtaatc actgctggga ttacagaagt gagccaccgt 660
gcctggccaa acctaaagta atgtttttaa attatactac taacatagca tacaggcttt 720
agactgttgg ttgcttttaa gtttgcttac tttaaaagct agagagaaga tggttgagg 780
gatcttgtct ccttcagtat tcaactctgag ccatgcctcc tgaggaagtt tgctttaggg 840

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180/203

```

gaggcattgc tatgttatac actctacgat gcaccagccc ttgcctcaga aggcaaggtt 900
tgaaccccaa cactgtcttt tgcaaactgt taccttagga aatagatttt atctccttaa 960
ctcacttttt a                                     971

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```

<210> 205
<211> 974
<212> DNA
<213> homo sapiens

```

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<400> 205
gttcaagcga ttctcctgcc tcagcctctt gagtagctgg gactacaggt gcccaccacc 60
atgcctggct aatttttgta tttttggtag agacagggtt tcatcatact ggccaggctg 120
gtctcaaact cctgaccttg tgatccacgc acttcggcct cccaaagtaa tcaactgctg 180
gattacagaa gtgagccacc gtgcctggcc aaacctaagt aaatgtttta aaattatact 240
actaacatag catacaggct ttagactggt ggttgctttt aagtttgctt actttaaaag 300
ctagagagaa gatggttgag gtgatcttgt ctccctcagt attcactctg agccatgcct 360
cctgaggaag tttgcttttag gggaggcatt gctatgttat acactctacg atgcaccagc 420
ccttgcccca gaaggcaagg tttgaacccc aacactgtct tttgcaaact gttaccttag 480
agaaatagat tttatctcct taactcactt tttacatttg caaaatgggt aaattgtgac 540
tacctcacat ggatgtcatg agatgaaatg taagaatgtg tgtccctggc ataatagtaac 600
cactttcgcc aaagactgag ttatccaact acagacagag aacagctggg ggcctaatac 660
aaggagagata caaaataaca atgccaaagac tggaaaagga agttcatctt aggatttcca 720
agagaaaaag aaatatgact gtattataat aggtatatatt attaatgctct taccatgtgc 780
caagcaaagt tctttatata catgatatac ttcataatac ttatttcatt tagtcccat 840
ggctaccagg tgagcaccat tattttocca ttttacagat gaggcacaga gaagttaagc 900
cacttaccta ggaagggcag tcctagttaa gaagctggga ttcaaataca agaggctgga 960
ttccagacct cagg                                     974

```

```

<210> 206
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 206
ttataatagg tatattttatt aagctcttac catgtgccaa gcaaagttct ttatatacat 60
gatatacttc atatacatta tttcatttag tctcatggc taccagggtga gcaccattat 120
tttcccatth tacagatgag gcacagagaa gttaagccac ttacctagga agggcagctc 180
tagttaagaa gctgggattc aaatccaaga ggctggattc cagacctcag gctctattat 240
gagaagtacc taaatagaga ttggtttaac caaagcctga gtcccaacta agggcaagac 300
tgtgacacag aggtcactaa tcagaatgaa agattgagcc agagttagt tgttggaatg 360
tattttggta catttaggtt gttttaagta tatcaatctc cattccactc aatgggttgag 420
ttcagtttca agtttttcaa atgctttatg ggaaagtcatt atttttctcc cattgcagca 480
gggatgccag cgcagccatg ctttctcaac caccaagtag aagcaaagcc aaactgaccc 540
aagaagatga acagagggaa tccaggaggt tccaacttgg gttcacagct gcaattctca 600
aaggatggac taagccatgt caccctccca gataacacag tcatattaat agtgaccttt 660
tggaggcctc cctaaacagc aggtgaagtc ccāaaatcat tagattattc ctggcctcaa 720
ttgtggccca gagggagagc cctaagattt ttccatggga acaaagatct aaattctggg 780
actatctggg ccatgtccac cctgcaccat ttactacaaa atgggctgat cctatggaag 840
cacactacct gtgttgtggt catatagatc atcaacctggc ttctccaggg ctaaccaggt 900
agcatggaaa tgggacaccc aagaacaaga ggatagaaag aagggaaggg tggaaagaag 960
gaaggaagaa aggggtgggag ggagggaaga gtggtagttt tg                                     1002

```

```

<210> 207
<211> 915
<212> DNA
<213> homo sapiens

```



181/203

&lt;400&gt; 207

```

tccctggcctc aattgtggcc cagagggaga gccctaagat ttttccatgg gaacaaagat 60
ctaaattctg ggactatctg ggccatgtcc accctgcacc atttactaca aaatgggctg 120
atcctatgga agcacactac ctgtgtttgtg gtcatataga tcatcacctg gcttctccag 180
ggctaaccag ttagcatgga aatgggacac ccaagaacaa gaggatagaa agaagggaag 240
ggtggaaaga aggaaggaag aaaggggtggg agggagggaa gagtggtagt tttggaagga 300
aggagggaa cagagctaaa gataatacat gatatgagtc agtggttcaat gtccctgaag 360
attaggggaa tcaagctttg cttccaggag aattaacaca ggagagcaa cagagatgtg 420
gaaattttagg aagtcagagg agacattctt tcatctcatt cattcgttca ttcattcact 480
tgctcatttt tacatgaatt gactctagaa cagatgctgg agatacaaag atgcatgaga 540
cttgcctcca tctcaacag tcattcacag tctaatacaga aagagagcct tgcatttgga 600
atacaatatg gagtaataat acctctgtgt tcagcctgca caaaatactc tgtatgcatg 660
gtcatatgtc ccttgaaaca actttatgag gaagatacta ctatagtctc catttgacag 720
ataaggaaac tgaggcttag ggaggtcaaa taacttgccc aagtaaaaca actagtaagt 780
agctgaacca caaaacagag attcatgcag aaagctgtac aacagaagaa accaggacta 840
catctgcctc aaaggaacca gagaaggctt ccaaagaagg cagcatttta aatgggtttt 900
gaaggatgta tagca 915

```

&lt;210&gt; 208

&lt;211&gt; 864

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 208

```

cccagccctc aggcacatca gtgccctctc taggctctct ctcaccaact ttagaattga 60
attacatcag ttgtttccag atgggtgatct gcagaattcc tttaaagacc acctgtggga 120
tttgaggagg gaaaactaca ctctcccaat ctccctcttt aaccaagca tctgattgct 180
ttcatctgtt ttacatactt agcttctgtg cacaacttcc tttgattaaa gagttccttg 240
cctttatagt agtggatgat atctaaggat gatgtaaaat actgggtgtt agctaagggt 300
ttaccaaact taaagccttt atgcttcata attccacttt attgatgtag gaagacaaat 360
gatagactta ctttcaagggt ggatagaagg gatgcgacct agccaaggct acagcatttc 420
tctagtggca ccactgccat gacaaccatc agtttgaatg ccttatgggt gcatcctatg 480
ggttatgcac tggccccaag ccataacccc taggactcta gagccagcag caaacacaaa 540
acactgaatt aataatgagt gagatctctg ttcccatagc tgccacaggc taaataagtt 600
gaggggggtat tgtaaaaccc aagatgagat cactgagcct ctggtatcaa aaagggtgat 660
ttcacagaat gtttagttgg acgagagctt gaagagcatg gaaacgatct ggtatcattc 720
tggtcaaaga ccagaattta gaccccagtt ctgccatttg ctgactaatg actttgggca 780
aaatacttaa ctttctctgag agtttagtttc ctcatctata aagtggggta atataaccca 840
ccttgcagga tactggtagg atta 864

```

&lt;210&gt; 209

&lt;211&gt; 946

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 209

```

agcagggtcc cctgagcgtt cctcctcagc tcccaacact tccctccagg caccagtatg 60
cagggcaagg tccctggagg ggcgccgaaa caccactcga gatcctcact ctgagggaatt 120
caatatagaa aacacattaa gacctgttta catggaactg ctgtttataa ttattgttcc 180
ctatgggata ttccccactg cttcctccaa tctcttttta aactgctcaa ctaatagagt 240
tttcttggtt tccccaggga gacattcaca gatgctaata gagacataat tcaaaaattg 300
cttgatatac atgccctcaa ttttcccaaa gaaccaccta agtaaagagc cccagacatg 360
caacacattc attggccaga tgcaatttaa catgcgtggg attaaatata caggctacta 420
cagccagggt gtcatacagc agcagcaggc atggcatttt atcctaagggt accaccatcg 480
gccaaatgca acaggaaaga agcaggctgc tgggtgggac ccctggaaga tcccctcctc 540
tgtaatttcc actgcaagct tttcccaggc cttttcaggc aaagcgggga gttttgaaaa 600
taaatcccc aggcttggag aagcaaagaa tcaatgctaa gcagctccgg aaataatagc 660

```

182/203

ttccatctct	ctgatatata	aagaggataa	ggaaggcaga	aagaaggggc	atgatattat	720
gagattgcaa	caatacattg	caacattaca	ttaaagaatt	acagaaagca	agatctagct	780
tcagatgcca	gttcatgcac	ttactccctg	tgtgaccctg	ggaatcactt	aagctgtctg	840
agacttagct	tgtctaata	caaactgggg	atactaata	cacctcccag	gattgttggg	900
aaggtaaagt	gagattgaca	aatgtgaaca	cacttagtat	gtcttt		946

<210> 210  
 <211> 877  
 <212> DNA  
 <213> homo sapiens

<400> 210						
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ctccaatcct	cttttaaaact	gctcaactaa	tagagttttc	ctggcttccc	caggagagaca	120
ttcacagatg	ctaataagaga	cataattcaa	aaattgcttg	atatacatgc	cctcaatttt	180
ccccagaac	cacctaaagta	aagagcccca	gacatgcaac	acattcattg	gccagatgca	240
atttaacatg	cgtgggatta	aatatacagg	ctactacagc	cagggttgtca	tcaagcagca	300
gcaggcatgg	cattttatcc	taaggtaacca	ccacggccaa	atgcaacagg	aaagaagcag	360
gctgctgggt	gggacccctg	gaagatcccc	tcctctgtaa	tttccactgc	aagcttttcc	420
caggcctttt	ctaggcaaag	cggggagttt	tgaataataa	tccccaggc	ttggagaagc	480
aaagaatcaa	tgctaagcag	ctccggaaat	aatagcttcc	atctctctga	tatataaaga	540
ggataaggaa	ggcagaaaga	aggggcatga	tattatgaga	ttgcaacaat	acattgcaac	600
attacattaa	agaattacag	aaagcaagat	ctagcttcag	atgccagttc	atgcacttac	660
tcctgtgtg	accctgggaa	tcacttaagc	tgtctgagac	ttagcttgtc	taatgacaaa	720
ctggggatac	taatatcacc	tcccaggatt	gttgggaagg	taaatggaga	ttgacaaatg	780
tgaacacact	tagtatgtct	ttacatagta	ggtattcaat	aaactcttct	atatatcttc	840
tctttctgaa	aatctgaata	tggggagcat	ggatatg			877

<210> 211  
 <211> 914  
 <212> DNA  
 <213> homo sapiens

<400> 211						
gtccccacca	ctccttttta	ttgcagaggg	aattgacatt	cagggaatgg	aatgcccag	60
cccagaattg	gggatgtggt	ctgggaaccc	aggtctccca	tcccactccc	tcgccctctc	120
acccctctcc	gctggctcag	gttctttgtc	ctctgctggc	atccctgggg	acgggccagc	180
cccctatccc	ccgacacaca	cacattgtcc	cttcaagatg	gagccaggct	gacaccacgt	240
agaatgacct	ggaagccccc	actcagtcta	ccagtcctcc	ctcctcacac	aggaatagat	300
gggagggaaa	tgaataaagc	tgccatctgc	tgtgcatcct	ctgtgtgcca	tgctctgggt	360
acccatctaa	tcctcgtgaa	gacctgaga	agtgagtgtt	cttcacagac	taggcaaacac	420
cagaaggcag	gatgaagaac	gtacagaagc	tacagagtgc	acaggtgaca	ggtatgagag	480
ccaagccatt	caaaactcct	gggtatagga	cccagctctt	cccacgtctc	tgcttttacc	540
gaatcaaaca	cctgagcacg	gaagaccctc	catcaacatg	aactgctttg	aattgacatg	600
aacaagcttc	aatcaaacta	taaatgctga	aatttttcaa	ttatagaaag	tatttgaaag	660
atcccataaa	ttcccctgtc	atatcacgtg	agctgcattt	actgcagcag	acacttttta	720
tctcgggctt	ggaggaagga	ttagcaagaa	gaaagtggag	ggggtctgag	gaagggtctg	780
cagcctagag	gaggacagca	gcaagaagca	ggctggaggc	agttctgtgc	tgccggcctt	840
catgggtgtg	gcctttggac	agcaccttag	caggaatgtg	gtggagagca	gccccattca	900
ctccagagga	gagc					914

<210> 212  
 <211> 964  
 <212> DNA  
 <213> homo sapiens

<400> 212

```

aagaccctga gaagtgagtg ttcttcacag actaggcaac accagaaggc aggtgaagaa 60
cgtacagaag ctacagagtg cacagggtgac aggtatgaga gccaaagccat tcaaactccc 120
tgggtatagg acccagctct tcccacgtct ctgcctttac cgaatcaaac acctgagcac 180
ggaagaccct ccatcaacat gaactgcttt gaattgacat gaacaagctt caatcaaact 240
ataaatgctg aaattttttca attatagaaa gtatttgaaa gatcccataa attcccctgt 300
catatcacgt gagctgcatt tactgcagca gacacttttt atctcgggct tggaggaagg 360
attagcaaga agaaagtgga gggggctctga ggaagggctg gcagcctaga ggaggacagc 420
agcaagaagc aggcctggagg cagttctgtg ctgccggcct tcatgggtgt ggcctttgga 480
cagcagcctt agcaggaatg tgggtggagag cagccccatt cactccagag gagagcctca 540
aactcttcag gcagatctag cctaggtaga atcttggcct ggccccctccg ggatgacagg 600
tgccattgcc caagaatggg gaaaaggctg aagtgtcca gccaaagacc ccaatttatc 660
ttcaggacaa ttttctactg aaaccttgcc tcaccactgc ccactttttc agaagtaatt 720
agaatgctaa tctataagaa agatgactat taaaaataaa ttaataatag ataatacatt 780
ttggcttaca attttgaata atatagccat cccatcttaa agtaaaaaatt catatatatt 840
taataagcct gagacatgtt ttccaatgaa ccacagatgg ttcatTTTTA ttatcctata 900
aagagacatt atgggcaagt gtttttttaa atggtaaaaac agaacccttag agcagctctc 960
tttt

```

<210> 213  
 <211> 876  
 <212> DNA  
 <213> homo sapiens

```

<400> 213
ggcaagtgtt ttttaaaatg gtaaaacaga accttagagc agctctcttt tgaagatctc 60
taagcacttt ctaagcatca ggacccccct ctgtcatcac agagactgaa atgaggagat 120
ggctctctgt accccctcac tcaccagtga gcccagacc ttcacccctg atcagatgga 180
agcagtgtgg catgattaca gttcatatit caactctgcc actcaatgac taatagccaa 240
gcactaataa tgcagaaaat gtaaatTTAA aaaataatct tcttgagatt ggttatgaaa 300
tgcactcaac acagcaccat ccacagagag gttctTTTTA attgctcttt tctttcctct 360
cgacacccag aatcacaaaag catgcctgaa agcgtcacac atatatgtct gtgaccataa 420
catggcattg cacatgcaaa ggaaataaag taggtgttac ccatgtgaca aagggtccatg 480
agctctgtcc gcaaaaagct gttgagttta aagaacaaat aattctgaaa aatcttccag 540
gagatgaaat ttgtagaact caagggcagt aaactagctg ctttccaagg acttgtcata 600
gctttattga cttacaatag ccaaagataa gtcagtatta atcaaaccce ttctctagaa 660
aaacctcatc atcactgggg ccagggcaga gaagtgtgac acagctctct ccagcttccc 720
cacttcacag catggttcca ccatccacc aattgctaaa gcctggatag tcttccctgt 780
cacctccoga tcccttctc taacacccat ccccgggcca cccaacatca gcaagtctgg 840
tggtttctct ctgtcacaga gattcaagat cttccc
876

```

<210> 214  
 <211> 910  
 <212> DNA  
 <213> homo sapiens

```

<400> 214
tcgtagtggt catagactct ccttccctcc taacttaaaa gaggtcctt ctggtttttc 60
cttcatacac ttccctcact cttttccttc actgcactaa agatgatttc taattgcata 120
gtcattgatg ccagtatttg tttattgtgt cttcctgtct gaacagagga tgggcctgac 180
ttatttggga ccatgttgct gatgcctgga cctaagcctg gcacagagta ggagctcaac 240
aaatttgtaa aatgagtggc tgaatggcca tactctcaaa ggaccacag tctaggagag 300
acagaagaat ctttgtcttt ttgtcttgca gtgggatgga agctgcaggg aggggtcttg 360
tcacattgat actgtctggg gaagacagaa aaacttcagt ttcagaggag gtagcccttg 420
aaacgaagat ttgagagagg gcagcacatt gtacaactcc atgggcacca tgcacattgt 480
agtccagata aacagagccc cttggagata tgtgaggcat gggatagact cagagaaacc 540
caggaaataa ccccttcagg catctgacat gcaaagatgt ggaagtgtca accaggaagt 600
catgttgggg gaacagcaag tatttacaga aagtgactgt gtgtgtctgt gtaggagggg 660

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184/203

```

gactttgtat aggagagata aaacctgtga gctaatacaag gagaagatca taaaagacct 720
tcataaagag catggccttt ttcttgcaag cagtgaaggag ccattgaagg ctttagcata 780
aggacagtca gatgtacttc cctagaatgc acatttcctt ctgctccaga acttctgcac 840
aggaggctcc taaaagctct ccccatcctc cctgtacacg tagaatctgc ctctgtctct 900
ctttctctct 910

```

<210> 215  
 <211> 877  
 <212> DNA  
 <213> homo sapiens

```

<400> 215
cacttccctc actcttttcc ttcaactgcac taaagatgat ttctaattgc atagtcattg 60
atgccagtat ttgtttattg tgtcattcct gctgaacaga ggatgggcct gacttatttg 120
ggaccatggt gctgatgcct ggacctaacg ctggcacaga gtaggagctc aacaaatttg 180
ttaaatgagt ggctgaatgg ccatactctc aaaggacca cagtctagga gagacagaag 240
aatctttgtc tttttgtctt gcagtgggat ggaagctgca gggaggggtc ttgtcacatt 300
gatactgtct ggggaagaca gaaaaacttc agtttcagag gaggtagccc ttgaaacgag 360
atgtgagaga gggcagcaca ttgtacaact ccattggcac catgcacatt gtagtccaga 420
taaacagagc cccttgagga gtatgtgagg catgggatag actcagagaa acccaggaaa 480
taaccctctc aggcattctga catgcaaaga tgtggaagtg tcaaccagga agtcatgttg 540
ggggaacagc aagtatttac agaaagtgc tgtgtgtgtc tgtgtaggag ggtgactttg 600
tataggagag ataaaacctg tgagctaate aaggagaaga tcataaaaga ccttcataaa 660
gagcatggcc tttttcctgc aagcagtgc gagccattga aggccttagc ataaggagag 720
tcagatgtac ttccctagaa tgcacatttc cttctgctcc agaacttctg cacaggagag 780
tctaaaagc tctcccatc ctccctgtac acgtagaatc tgccctctgc tctctttctc 840
tctcctcctc ctctccatc tctcctcct cctcctc 877

```

<210> 216  
 <211> 902  
 <212> DNA  
 <213> homo sapiens

```

<400> 216
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gaatctgcct ctgtctctct ttctctctcc tctcctcct ccactcctc ctctcctcc 120
tctccctctc tctcgtgtgc tcacacacac atacacacac actccttct tctatctag 180
tcagattcca ctcttggga ttccaggccc accgtcactc ctccagggaag cctgccctga 240
atgcctgcac tacaccaggg cccctttccc ctgcccccat cccagagcac caaatagctt 300
tcccttgagc cacttctcac agctgtcatt ttatgtttgt gtctgtgatt cttagggtta 360
gtccctcatg caccaaatca taagatctgg gaacaaggac cacacctgtc ctgcttcac 420
actgtaatca tcacactgcc tgccaaagtg ccttgccacat attagatact tagtagttat 480
gtgttccatg aatgactctt taagagatct tctagctgtt cttgcaaaga acccattgg 540
aaggttgaac ctacaggctg atactttgca ctagtctcag gaagagatgg tgagtaacatg 600
aaattgagtc cccagagggt taatgccag tgcccagct aggaacagtc caaggaggca 660
atgtgaaccc catctgtctg gctgcagagc ctgcccctct aatgcattca ggggtcctag 720
ctcctcgagg atgccactgt gccgtgaact tctttctgac cctcatggct cccagcacag 780
catccacact cagaagtgc agatgaatgt ttgcagataa tgaacataaa gctctcagga 840
accctcatct cctgagaatc tgctttggcc cccacagcag gtctgggtgt ggaccttccc 900
ca 902

```

<210> 217  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 217

185/203

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gtggcaaaagt tgggatctta acccagttct atgtggctat aaagttcatg gaatagaatg 60
ctgcagttaa gaacatgggc tttggcatca agcagacctg tatttgagcc ccacctctgc 120
tgtttattaa ctgtggccct gggcagatga ccttacatcc ttaagtctct agttctttgt 180
ctttaaaagg gtggcagaat gtacctcact ggttttagga aggtcacatg agatagtgc 240
catgaagccc taggcatggg aaaattcttc taaaatgtca gctgccattc tgatcactgc 300
aagaccccca cccccaatac tcccaattgt accaccccac cccactcacc agtgtctcag 360
aaatgcctcc tccagaagga aggcattctg tctaaccac tgcttctagc caagctgtct 420
ttcttcagaa ggtagaaaaa gattgttagt cattgtttta tctttattga gtatataccg 480
ccacaccaat tgcactgcc aattcattatc tcattttaa ctgacaagag ccttgtaaag 540
tagggattat tcccaccatt tcccagatgt tgaaactgaa attgataaac acgacatgtt 600
gccatggcta catgaagatc tccaagccgg aggatctcca ccctcacctg cctagcttcc 660
cagacctctc tgcagaaaag ggaactgacc ccaagacagc cctggcctct gggctccacc 720
ccttccacat ccatcccagg gccgtgagg actgaagagt tctccacgtt tgccctttaa 780
agtgaactta aaataatctt tatgaatttc ttcatataca aaatttgtac ttactcattg 840
cagcaaatat agaaaatata cataagcaaa aaagaacgta acagccatcc ataaccctaa 900
ctctcagaga tcaccactat taaaatgttt attatctaag agagagatga tatagacaaa 960
gatgagacag attgacacag agaagatggg tacatgatag at 1002

```

<210> 218  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 218
tgctcaactg taatcaaaca ttatttttaa aaaatcattc cagcctggga aacagtgaga 60
aaccocatct taaaaataa aaaataaaaa ttagcttggc attgtggcat ctgcccgagg 120
tcctgtctac tcaggaggct gagatgaaag gatcacttga gcctgggagg ttggggctgt 180
ggtaagccgt gattgcccc a ttgcaactca ttctaggcaa cagagtgaga ccctgtctca 240
aaaaaaatat tattcattta atatctgttg ccaccacagg actgatccct ctgtgagggc 300
agagattggt catgcatgga attgtgattt ataagcactg gctctggagc caggttgccct 360
gagcacggag ccagctgtgc cctgcgggac acctgtggca cacttcactc ctgggacacc 420
tgggcacagc acacaataga aatgttcaca ttttactagg caatgccagt cacatagtcc 480
tacctaattt caaaagggt a agaaggta ca ccaacacgc atcagggaag aggaggacca 540
gaaattgttg gtgacaagca caaatgacca cccaatata atattttgtt tggaaggcat 600
tttattccac aaaaacaaca ttacaataaa cacaacaaca aaacactggt tgcagtagaa 660
ccaactttcc agacctatct gcacagcaca accattatcc cactcaaaat gtcagtgttt 720
taccacaaac attaaaattt taaaagcaat tcaaaccat agcttaaaaa atgttccaac 780
cagtaataaa aggaaaagtg tgccctctcc tcccaacttc cctaccccac aatcgcaaga 840
tattatcctt ataggcgaaa agggtttcag gatttgagat gcaggctggg aggtctgaga 900
agacttccta tagaagacat gacttcaaac tctttcttgt atgtgagatt taattttcaa 960
agactcctct gatccaactt aagctttatg gtaaatcacc tt 1002

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<210> 219  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

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<400> 219
atatgccagc gctctatctg caggggttct tttgatagca gcagactgag agatgatgtt 60
actgtccctt ttttctgtt gttggcaact gagactcaga ggatggaagt gacttgctca 120
gggtccaccac ctcttcagct gtggagctgc gacaggagcc tttgtttgac ttcaaagctc 180
accatcactc ctctctcact gatgtcaag tgggctatca cctgcctttt cctgagcctt 240
ccttcgctat cctaaaaag cgctcccgga aatcaccact aaagaactta ttcatgtaac 300
caaacaccag cggttccctt aaaaacctat ggaaataaaa attaaaaata aaaacagtgc 360
ctcccatgac ccattgtctt ccagtcccat aactctgtct tatttccatt cacagctcca 420
tccccacctt tatgtctttt gttcactgct ttatccccag tgccatagaag agtgcttggc 480
acctagtaga cactcagtaa cgtatttgtc gaatgagtta ataaggttgt gaaaagaacg 540

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ttagattact ggaaggattc atctgagttt aattctgcta tgctgggaat ccagtgtgcg 600
gccttggatg aagccagttc cctccctggg cccagtagc cacatctgta catttagagg 660
gcaggagaaa agccacacgc tctgtgactt atacaacttg ttgccagag tggaggctgc 720
tttgatgctc agaaaaaaga aacaaacatg gaaatgctaa atgggtggca gagagcttga 780
gggaggaagg agatggggag ggtactcttg aaactgtttg gtgtcttccc tcctgcccc 840
tcagtaccaa ttgtcaagta cagaaagtga aggagacttg tattagtga atttggtccc 900
tgacttgtaa tagagacaca attacaaaga cacaagagtg ggcccagcag agacccttag 960
ggtggtccct tgaggttcca aagcatctgc ccatcaagca ga 1002

```

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<210> 220
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 220
caccagcggt tcccctaaaa acctatggaa ataaaaatta aaaataaaaa cagtgcctcc 60
catgacccat gtctctccag tcccataact ctgctctatt tccattcaca gctccatccc 120
cacctttatg tcttttgttc actgctttat cccagtgcc tagaagagtg cttggcacct 180
agtagacact cagtaagtat ttgtcgaatg agttaataag gttgtgaaaa gaacgttaga 240
ttactggaag gattcatctg agtttaattc tgctatgctg ggaatccagt gtgcggcctt 300
ggatgaagcc agttccctcc ctgggccccca gtagccacat ctgtacattt agagggcagg 360
agaaaagcca cacgctctgt gacttataca acttgttgcc cagagtggag gctgctttga 420
tgctcagaaa aaagaaacaa acatggaaat gctaaatggg tggcagagag cttgagggag 480
gaaggagatg gggagggtag ctcttgaaac tgtttggtgt cttccctcct gccccctcag 540
taccaattgt caagtacaga aagtgaagga gacttgattt agtggaattt ggtccctgac 600
ttgttataga gacacaatta caaagacaca agagtgggcc cagcagagac ccttaggggtg 660
gtcccttgag gttccaaagc atctgcccac caagcagatg atgtgattag tctctgtgac 720
cccaaggatg cctcctgaaa ttgctgattc aatttctcct aataaaatag gaacaataat 780
tagctaataa gaaatcaaca attaaagcta tgagagaatt aagtgagatc atgtaagcaa 840
agtacatgtc acagtgtctt gcaaataggc agtgctcaga agtgctacct tttctctttc 900
ttctctgagc ctccgtcttc tcttcggtaa aatgagaata atattatgca tacctcacag 960
gggttaagca atgtgaaagt actctgtaaa gtataaggct ga 1002

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<210> 221
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 221
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ataaaacgat catatttact ttatcctatt catgtccaac ctcaactgac aattgagttg 120
tgtctctgac aataaatagc agaaaaagga aatcttccca tactgaagag aaacacaatt 180
aattaactag atccatcagg aaaggtacaa tcatgattga gacagtgttt aacagatgtg 240
actattggat tctgttgttg agaatgacct ttaaaatcac agtcaaaata tacgacaaga 300
tggaataaac atttttgagc acctactatg catgtagagc atcttacata ccttatctca 360
cttagattta cagctgcaag gtgggtatga ttctagcttg aattagtcta ataaccatat 420
acctcctagg ggcagtgaga tgattagatc aattctaaaa ctattacat gctctctgag 480
ctcaccaaga caggcagtta agtacaagga tacathtaata ccgaatccag caaaagctca 540
catggccagc tctcattatg ttctattttg tgattattct gtatcaagca cagaaatgta 600
tgttcacacg aacaacaaag aaggggttta ttagtggtga ttacagggcc taagcctacc 660
ctctgaaact ggttttggag tctttagcac gcttgtttgg gacagttaaa catgtgccag 720
ctattctaaa acagttagcag taatgtgata gagctgggtc ataccgtgct tcccaaagta 780
tgatcacttc atttcaacaa ctccacacta acagcctgaa ctgggctgtg aagggaatat 840
ttagaccaag gaaactggaa aactgtatca atcaggcttt tccacctcc ccaagagcca 900
gttgtcagat atctaccagc ctaccaacgc tagctctcta atcagaaacc atcacttagc 960
aagttcccaa attatctgca gagcaatgaa ctctcttct tc 1002

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<210> 222  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 222  
 ctatgcatgt agagcatctt acatacctta tctcacttag atttacagct gcaagggtggg 60  
 tatgattcta gcttgaatta gtctaataac catatacctc ctaggggcag tgagatgatt 120  
 agatcaattc taaaactatt accatgctct ctgagctcac caagacaggc agttaatata 180  
 aggatacatt aataccgaat ccagcaaaaag ctacatggc cagcttccat tatgttccta 240  
 tttgtgatta ttctgtatca agcacagaaa tgtatgttca cacgaacaac aaagaagggg 300  
 tttattagtg tggattacag ggcctaagcc taccctctga aactgggttt ggagctctta 360  
 gcacgcttgt ttgggacagt taaacatgtg ccagctattc taaaacagta gcagtaattgt 420  
 gatagagctg ggtcataccg tgcctcccaa agtatgatca ctctatttca acaacttcac 480  
 actaacagcc tgaactgggc ctgtgaaggg aatatctaga ccaaggaaac tggaaaactg 540  
 tatcaatcag gcttttccac cctccccaag agccagttgt cagatatcta ccagcctacc 600  
 aacgctagct ctctaatacag aaaccatcac ttagcaagtt cccaaattat ctgcagagca 660  
 atgaactcct cttcttcaga aagcaggctg aaagatacac tgttcacatc ttagcctgac 720  
 ctggacccag tgagtttcca tcagtggaga aattctgtgc taacttgaga taatactatt 780  
 cttgtggcaa ttttactttt cctttgagcg attccttcaa cctctctctg ccccttcatt 840  
 tttcgtctt aaaactaaaa gtgcctttc tccctggaca ctctcattt gcaatgaatt 900  
 gtcatttcag ctctcagtc aagaggagta atgaaatccc acccgtgtta atcctcttat 960  
 atcccgcaga aatattgtag acccactcac cctaggcaac at 1002

<210> 223  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 223  
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 tcaccctagg caacatgccc tctctcttca acacagggtca tcaattgttc atttactggc 120  
 tatctccatg tactggaact tcagggtggg gtccagctgg gttcaaagga gaaacagtgg 180  
 gaagtttctc cactgccacc tgaattagat gagaaagagt tgtctactga aatacactag 240  
 ctgggtggcag gattgggacg tcatttgact aattgcctcc tagagctgca gagactgctg 300  
 gaactaccta agtaaatcat caaaaaaaaaa aaaaaaaaaa atcatcccag ggcacttttt 360  
 ccagacaaaa aggtccactt aaaacatcct ctagaatctt gtgcctgaag ctgagctgct 420  
 gcaatgaaac tgacatttct gccttgacgc ctggccatgg gcttagctgg actaaaatgc 480  
 tgctgcagtg gtgagggcac agtgagagtc cctaattgtac atggccttgc tccttgcct 540  
 gacacatctt ttagggctgc tgctttctct agtgctggaa tctagataat tcctttccca 600  
 gccgtttgtt tcttcaatct tggaaaatat ctggatgaat gtaacactgt cacacacaaa 660  
 cagaattatg acttacgtca cattctatgt cgtgattttg tggactttta ataattgcat 720  
 tacatttgtg accattaatt tccaccatcg cctgctcct gagaatctgt aaggggacatt 780  
 tgacactcct ctccccaccc acctcaacat ttgtgctgac ctgaagggtca cattaaaaac 840  
 ataccattt ggagagaaag atctgtctac tgaaatacac taaatattga agaatttcca 900  
 agtcatttga tcttgaaaac tccatctaata ggaagcagaa acactcaaag gttttttttt 960  
 ttggactccc tttttcagga cactttcagg actgaggtat at 1002

<210> 224  
 <211> 978  
 <212> DNA  
 <213> homo sapiens

<400> 224  
 tcagactttg aacaaacctc agaaggaact gtcaaggagg ctccccacgg gttcacgctc 60  
 ttctctctc ctgcacacag ggaacagggc cattctcctt cctttactgg gactacctgg 120  
 gcttcatcca ggggaatcccc aggtggcaac aggaggggtg tgaaaaccgc tgcccgtcac 180

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ctgtaaagtt  tcctgtgaat  gtgtctacag  cggccagcac  cacaaggcat  acaaagaaag  240
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tagacaagtt  aaatcagtcg  agttcaatca  aaagtcatga  cccatgagcg  tcacaaccag  360
cacgagtcta  caaaggaata  cattaaaact  aagaccagag  cacagctcac  attagtgagg  420
gatgggatca  tttcatggag  tttttgtttc  aaaatatttc  attaacattt  cacttatata  480
catgtgtgta  tactgggttg  tgatattaaa  ttacaattct  tactataaaa  tacagcaaaa  540
gaaagaagaa  acaaagagag  ggccactggt  ttacctaaca  tccacaggca  ggctacttcc  600
cagcatcttg  agccccaag  aagtaaatTT  ccttccacaa  ccgatgttac  cacagcctga  660
cacttagcca  atgatgaaaa  cgaaaaacaa  aacaaaagct  tggcagtcag  tatccaaata  720
tgcagatact  acagaatctg  tttgatgtag  aagttgatcc  tgctaccag  acagcaaaaca  780
actcatttat  taataaagtc  cagttcctcc  ttaatgaagt  gggtttaata  gttgatattc  840
caataattac  ttagtgcat  ttttatgaag  gtgatgggaa  acaagtgtg  tttcttgagt  900
cggaagagt  ctctcaagct  cccacaaaga  aatttccga  gcttgtgagg  aattcagtc  960
caggaagatc  aaggaatt  978

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<210> 225
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 225
gatctaattgc  taggagattc  aaaccaacaa  ttaattttct  tgttaaaatg  ggttaaaata  60
gatgtaaaat  attaatatgt  atataagcat  tctgaattag  acttatgtga  atttttctcc  120
ttttctttct  ttctttttga  gaataagccc  ttccatttac  gtagaaatgc  ttcagcgttt  180
agataattgc  tacttatctt  gttagctaca  aacacaacca  taattaaagg  ctctgtaaga  240
attatgaatt  ctggggaaat  tggccacttg  tctctgtggc  gtaaacagta  tctaatttat  300
aacaaatcat  ctgccttagt  cccagcagga  taaggtgata  tgtattgcc  agcatatgag  360
aaagatggca  attaggaatt  gttaccaagt  tacgggagcc  tcacacgaac  atccatcacc  420
tttggggata  tgtacaagat  acaaacttaa  tttgatggat  tccttttgta  ttgggatcaa  480
agtctcaaaa  gggaaagtga  caatttcagg  gaaaatctgg  tgcaatgaga  ccaacactga  540
tgagagaaat  gcacacaatt  taatacacct  gctcacctga  tgtggcaact  cagcctgtgc  600
ttgctgtggg  ttgccacagg  atgagacatg  gtctgtgcat  attcccagca  gccaccatc  660
tcatacctat  tcttgccagc  ccagatttac  agttgttcaa  tagatggatt  tggtaatatc  720
tgcattgaaa  caacaggcag  agaaggttag  atggcaattg  attcttgatt  ggtgtaagtt  780
tatagaacac  attctggcag  ggcccaaagg  aaatcactca  cctaccctc  tgtgatggta  840
aaacgttgaa  aattccacgg  acttgacct  tgtgacctt  cagtgaaga  tgggcagatt  900
ccttgcttta  attgacagac  actttctaaa  taactaatgc  aatcttatat  tacattatag  960
tccataaggg  agacatactt  aaactactac  ttacaacaac  gtgtttttag  agcctttcaa  1020
atggtttgta  caaagttagt  cccattttaag  atattttcct  agtattttaag  gctatctagt  1080
agacattaca  aaacaatacg  ctgtaaatac  attcagattt  ttatcagtaa  tacttaacat  1140
gccgtaattt  gaactttctg  ctaaatcatg  ctatccattc  ctagtgggcc  ccaatggtga  1200
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gcagtgtgac  cccagcccac  agtcctagat  cccaggctgt  gacaccactc  ttttgacagc  1560
ccagattggt  acctaacaag  aatgactccc  aagctcaacc  attccaatgc  catctcctct  1620
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actggagcag  ctgaggccc  agaccaactt  caccaagagg  gagctgcagg  tcctttatcg  1740
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ggctacactc  tccccaatgc  caagggagct  cataaggcgt  ttcccatatg  tgaggctgta  1860
caaggaaggc  cagctctata  aagggggcat  gagagggaga  tcacctggct  agaaaggaag  1920
gctccaggcg  aggatggagc  aacctcagga  gacagtaaac  ggccaactgc  ccagaaattt  1980
cacagggtgg  cacatcctca  ag  2002

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<210> 226

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<211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 226  
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 cattcctagt tggccccaat ggtgagagtt tactgtttct ttaaataatt ttgtttccct 120  
 ttgctgtcta gaggtgttta tcattctgct tacttgctg tgtctctgga atattcagaa 180  
 ggttccatgg gaaacaattt gaatatgcaa agaagttatt tttaaagcaa ggaaaatggt 240  
 ttcatatgga tttattttga gcacttctgc ctttgccctc actgggaaca tgtttctctc 300  
 caacgccgaa gccccctccc tgtgtggtgt ttgacgcaga ggctgacagg gcagggaagt 360  
 ggggttcaag ataggaaggc cattggcagt gtgaccccag cccacagtcc tagatcccag 420  
 gtctgtacac cactcttttg acagcccaga ttgttaocta acaagaatga ctcccaggct 480  
 caaccattcc aatgccatct ctctctggtt ccagataaga ttgaagatga gctggagatg 540  
 accatggttt gccatcggcc cgagggactg gagcagctcg agggccagac caacttcacc 600  
 aagagggagc tgcaggtcct ttatcgaggc ttcaaaaatg taagaccctg gcacgctctg 660  
 aaggcctggg gggggttccc acgtgaggct acactctccc caatgccaaag ggagctcata 720  
 aggcgtttcc catatgtgag gctgtacaag gaaggccagc tctataaagg gggcatgaga 780  
 gggagatcac ctggctagaa aggaaggctc caggcgagga tggagcaacc tcaggagaca 840  
 gtaaacggcc aactgccag aaatttcaca ggggtggcaca tcctcaagga attcaccctg 900  
 gccaggggtc aagccttagc ccttaacata atcatacctt ccaacctggt ggtgccccca 960  
 caataatggg atttggccct gctgacttat gctaaccagg ct 1002

<210> 227  
 <211> 2002  
 <212> DNA  
 <213> homo sapiens

<400> 227  
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 cacggacttg gaccttgtga tccttcagtg gaagatgggc agattccttg ctttaattga 120  
 cagacacttt ctaaataact aatgcaatct tatattacat tatagtccat aaggagagaca 180  
 tacttaaaact actacttaca acaactgttt ttagagcctt tcaaattggtt tgtacaaagt 240  
 agctcccatt taagatattt tcctagtatt taaggctatc tagtagacat tacaaaaaca 300  
 tacgctgtaa atacattcag atttttatca gtaatactta acatgccgta atttgaactt 360  
 tctgctaaat catgctatcc attcctagtt ggccccaatg gtgagagttt actgtttctt 420  
 taaataattt tgtttccctt tgctgtctag aggtgtttat cattctgctt acttgccctgt 480  
 gtctctggaa tattcagaag gttccatggg aaacaatttg aatatgcaaa gaagttattt 540  
 ttaaagcaag gaaaatgttt tcatatggat ttattttgag cacttctgcc tttgcctcca 600  
 ctgggaacat gtttctctcc aacgccgaag cccctccct gtgtggtgtt tgacgcagag 660  
 gctgacaggg cagggaagtg gggttcaaga taggaaggcc attggcagtg tgaccccagc 720  
 ccacagtcct agatcccagg tcgtgacacc actcttttga cagcccagat tgttacctaa 780  
 caagaatgac tcccagctc aaccattcca atgccatctc ctctggttcc agataagatt 840  
 gaagatgagc tggagatgac catggtttgc catcgcccg agggactgga gcagctcgag 900  
 gccagacca acttcaccaa gagggagctg caggtocttt atcgaggctt caaaaatgta 960  
 agaccctgct acgctctgaa ggccctggggg gggttcccac agtgaggcta cactctcccc 1020  
 aatgccaaag gagctcataa ggcgtttccc atatgtgagg ctgtacaagg aaggccagct 1080  
 ctataaaagg ggcatgagag ggagatcacc tggctagaaa ggaaggctcc aggcgaggat 1140  
 ggagcaacct caggagacag taaacggcca actgcccaga aatttcacag ggtggcacat 1200  
 cctcaaggaa ttcaccctgg ccagggtca agccttagcc cttaacataa tcataccttc 1260  
 caacctgggt gtgcccccc aataatggga tttggccctg ctgacttatg ctaaccaggc 1320  
 tcaccgagac tgatgtgtaa gccgaatgtc ggtgtattaa tttaccttgg gaaatggaac 1380  
 tgacagtggg aacagacact cctctccctt cgctgggacc cgctctcctt ggaagccaca 1440  
 tggagccag gttacaatca aaagtggagt cagaggacgg gagttccttg tttagttgtt 1500  
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 atcctggata ttaatttatt ttttaagttt aactctcaga gtgcaatctt attcccaaat 1620  
 cctggagtggt tgtggagtggt ggtgggctac agcgacatgc acctggtcac cctccctcca 1680

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ggtgcagtct	gtaggtagag	ctgagctggg	tcagttccaa	actgaccaca	gcctcaatgt	1740
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gggatgcctc	tctctccac	actagccttg	actgcacatg	ccaagtgcc	agtttcctac	1860
cattagggct	tctttccttc	gatggcagca	ttagcagtg	gcagccgagt	tggagaagga	1920
tctgtggga	aagttttcca	ggcaggcact	gggctcagag	ggaacagcat	ccagaaaaga	1980
gaagaaatct	acactgcttg	gc				2002

<210> 228  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

<400> 228						
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gggagttcct	tgttttagttg	ttactttaaa	tacattaatg	tgttctcgca	gtctcaggcc	180
agtttgagag	ctctcagata	caatcctgga	tattaattta	ttttttaagt	ttaactctca	240
gagtgcacatc	ttattcccaa	atcctggagt	ggtgtggagt	ggggtgggct	acagcgacat	300
gcacctggtc	accctccctc	caggtgcagt	ctgtaggtag	agctgagctg	ggtcagttcc	360
aaactgacca	cagcctcaat	gttctccaaa	ctgctgaccc	acagggattc	cagcccctcc	420
tgggagttat	ctgacaggtg	ctgggatgcc	tcttccctcc	acactagcct	tgactgcaca	480
tgccaagtgc	ccagtttcct	agccattagg	gcttctttcc	ttcgatggca	gcattagcag	540
tgggcagccg	agttggagaa	ggatcctgtg	ggaaagtgtt	ccaggcaggc	actgggctca	600
gagggaaacag	catccagaaa	agagaagaaa	tctacactgc	ttggcatcta	ccatggactc	660
aataccacct	aacatagggt	cataagatac	ccttggggaa	gttattgtta	ccccattttt	720
acaggtaagg	atattgagga	tcagagactg	gcttggccaa	agtcacaaag	cttagtattg	780
gctgagccag	gatttaaacc	caggtttttc	tgatcttaaa	gccccaaatc	tctccacctc	840
acagtgccca	ttctctgaca	atgtctcatc	attttgcaaa	gcagctccag	tcctgagatg	900
gcactacttg	ggagaagtgg	aaatgcacag	gtccctgtcc	ctggggatca	tgaggaaccc	960
cagacaccaa	ggctgggccc	agtcttctcc	tagtgctggc	cc		1002

<210> 229  
 <211> 2002  
 <212> DNA  
 <213> homo sapiens

<400> 229						
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acatggaagc	caggttacaa	tcaaaagtgg	agtcagagga	cgggagttcc	ttgtttagtt	180
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acaatcctgg	atattaattt	attttttaag	tttaactctc	agagtgcacat	cttattccca	300
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gagtgcacca	gtggtgtggt	caacgaagac	acattcaagc	agatctatgc	tcagtttttc	1140
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2002

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<210> 230  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

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gctttgtatg tattaattca tttactccaa tccccacaat aaccctatag ggtagggttt 300
tattattgat taacttttta cagaagagga gagtaaggca aagagagata gagtagtttt 360
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ggggcagggg agggaaactga aggcaggagc tcttcacaga gcatagccac atcctccagg 660
cagacaagag gacgcaggag gcaccattct gtgagagtat cacagtctga cccaaagaca 720
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<210> 231  
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 <212> DNA  
 <213> homo sapiens

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<400> 231
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aaccacaaag gttgagtcac tgggccccac tccataattt tctcctttcc atcaccttag 180
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gaattcctgc ccccatcacc tgcctcctt ttctgccttg tagatgccag cacgtatgcc 300
cattacctct tcaatgcctt cgacaccact cagacaggct ccgtgaagtt cgaggtagc 360
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ccatttgtaa gcatttccca aagatgggga aaagcagcag caactttccc tggcctgcag 540
gaactcaggg actcagggga ctaataacaa cagtgtatga gcttccgggc aactgcttc 600
ccagtggcag cccctgtact tagggctttg tatgtattaa ttcatttact ccaattccca 660
caataacctt atagggtagg gttttattat tgattacctt tttacagaag aggagagtaa 720

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ggcaaagaga gatagagtag ttttcccaag gtcaaagagc acataaatga taaaggatgg 780
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cactagacca tacggccact gggatgatag acagaccact gcagccatgg ataaggcaaa 900
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aatggtggaa ttgtaggcag cacctagaat agaaaagaaa gatttttaag gaagaggaaac 1680
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tctcaaaact cactttggta tccactgtat cctggatatc cagtgggaagc tggaaattgg 1920
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<210> 232  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

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ttttcccaag gtcaaagagc acataaatga taaaggatgg atttgaatgt aggcagaatg 180
accctcaata cagactgttc ctacagtcca cgtcctcagc cactagacca tacggccact 240
gggatgatag acagaccact gcagccatgg ataaggcaaa aacagggctg gctgtgttga 300
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aggcagacaa gaggacgcag gaggcaccat tctgtgagag tatcacagtc tgacccaaaag 480
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tcaggacttt gtaaccgctc tgtcgatttt attgagagga actgtccacg agaaactaag 600
gtggacattt aatttgtatg acatcaacaa ggacggatac ataaacaaag aggtaagtga 660
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cccagaaaagg attaaacaga ttcatctca ctgggtcacc tagattcagt agatattaca 900
cagtggataa aaatgacttg ttctcagtgtg aagagttact cttccctagg gaacctgcat 960
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<210> 233  
 <211> 2002  
 <212> DNA  
 <213> homo sapiens

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<400> 233
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ccagatatat aaagatacca ggatacaaaa ccaatatata gactggcatc caaaatatat 180
aagggacatt tataatttaa tacaaagata aacaacttca tataaaatag gcaaaagatt 240

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tgatgagata	tttaagaaaa	gaagatatat	gaatggccag	taaacccatg	aaaggttgct	300
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aatggccaca	attaaaaaga	ctgataatac	caagcattgg	caaagatgtg	gagcaataga	420
aactctcata	gatagctggc	agaaatgtaa	atggtacaaa	cacgttggga	aacatttttg	480
catctttgat	aaagctcagc	acacacttaa	catacaaccc	agaaatccca	ttccagtcag	540
gcatggtggc	ttacgcctat	aatcccagta	ctttgggagg	ctgaggcagg	cggatcactt	600
gagctcaggt	gttcaagacc	agactgggca	acatggcgag	acactgtctc	tactaaaaat	660
acaaaaaaaa	aaaaaaaaaa	agccagacat	ggtggttaagc	acctgtggtc	ccagctacta	720
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ccataaagac	ttgtacaaag	atgttcatag	cagctttatt	catagtaatc	tcaaaactta	960
aatgacccaa	atgtctgtca	acaggacaat	gggtaaatac	attcatagtc	tgttcatcca	1020
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gctcataaac	ctcatgctga	gtaaatgaag	ccagacgcaa	atgagtttac	actgttttac	1140
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&lt;210&gt; 234

&lt;211&gt; 2002

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 234

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cagttgtgac tagctagaaa attgtaatac aaatattctc atttgtatca caataaaatt 1380
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gcaataagta agtaaattat cttactcggg accataaaca caaaatcact atagatatgt 1920
acagttgctt ttttaactaaa aaagaactaa aaatcatatg tgaatatctg atcaaagaat 1980
ggaaaaagca taaaatcaaa gt 2002

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<210> 235  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

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tgtctcaaaa aaaaaaaaaa agaaaaaaga aaaaaagaat gagaaactca tacagattag 180
aagagactaa ggagacacaa caaataaatg caatgtagaa tcattgaagg gaaaaaaata 240
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ccctgtagtt tagttaataa tagtgaagcc atgttaattt cctggggttg gtcattgtgc 420
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<210> 236  
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 <212> DNA  
 <213> homo sapiens

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ggaattgtct accatctct ctctaagaag ggctcccaca atatatcccc tctgcttg 660
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195/203

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2002

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<210> 237  
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<212> DNA  
<213> homo sapiens

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tgtgtgcttt tatgtccctg ctccaggaga tgatggacat tgtcaaagcc atctatgaca 180
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tcttcttcca ggtaagtga cacaccctgc acatgagctg taagcccagc ctgatcaag 300
tcaaccacag agcatctgag caaatgattt gtgtccaacc ctgtactaag catggttgg 360
aacagaaaag aattataaga tacattgtcc tcaagaaaca gatgatctcc ttaagctgca 420
agtgtacatg acagaagaga acaagaaagt atattattaa acgctagtgg tatagtatga 480
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gatagggccca gattatgaga cttttaaatg gaagagtttg gccttgctct ggtacaggat 660
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cactttgcag atgggaaaag agagtcctct ctggccttgt gcaagtttgt acagcaagta 840
acaggccaga atcagaacct cttttgccc gtgttctgcc agatggacag ggtagcaggg 900
agtctacaga agaagcagaa taagccagca gtgaggtgat gagtgtccag agcaagtctt 960
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1002

```

<210> 238  
<211> 2002  
<212> DNA  
<213> homo sapiens

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<400> 238
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gatggacatt gtcaaagcca tctatgacat gatggggaaa tacacatata ctgtgctcaa 120
agaggacact ccaaggcagc atgtggacgt cttcttccag gtaagtgcac acaccctgca 180
catgagctgt aagcccagcc tagatcaagt caaccacga gcatctgagc aatgattttg 240

```

```

tgtccaaccc  tgtactaagc  atggttggtg  acagaaaaga  attataagat  acattgtcct  300
caagaaacag  atgatctcct  taagctgcaa  gtgtacatga  cagaagagaa  caagaaagta  360
tattattaaa  cgctagtggg  atagtatgaa  ctctaaatcc  ataaaaattt  ggggatcagg  420
gtaaacacga  aagacttcat  taattacaac  tgtggagggtg  ttaagcattt  gtgtctggga  480
agtaagggga  aataagattg  gaaactagga  tagggccaga  ttatgagacc  tttaaatgga  540
agagtttggt  cttgctctgg  tacaggatgg  gcagctagtg  ctgatccttg  actaaggagg  600
tgggtataatc  attgggggcat  tttaggaaaa  aattaatcta  gcgggtggagt  atcagagaat  660
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ggccttggtg  aagtttggtg  agcaagtaac  aggcagaaat  cagaaacctc  tttgccaggt  780
gttctgccag  atggacaggg  tagcaggagg  tctacagaag  aagcagaata  agccagcagt  840
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cccccccat  cagagccaac  aacaccagca  acaactgtga  agtccacagt  tccactcctc  1320
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cagctggggg  gaaaaaaacc  tacaattgtg  tgattctcaa  accacagtgt  gcataaaaaat  1560
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actttcatta  agtctaacca  atagaccagc  cccagagtcc  accagagact  gaactggaaa  1860
taattgcttc  atctactttt  gagaaatcca  tttgtacccc  cacattattt  tagaaatgtt  1920
cagagttact  ctgagctcca  gccagaaga  atagcaaatg  taagaaagcc  ggggagaagt  1980
tcttagcaga  tactgagccc  cc  2002

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<210> 239  
 <211> 1002  
 <212> DNA  
 <213> homo sapiens

```

<400> 239
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tggttcgggt  taagcaatac  acttctaatt  catggttcag  agaagaaaat  atctcgaata  180
aaaataaaat  aaaaatatga  cttatcaaaa  tttgtaggat  ctaaagcagt  attccaggaa  240
tgcaagggtt  gtttaacatt  caataattgg  tcagtgtaat  taatcacatt  aatagaataa  300
aaagagaaaa  aatataatca  tttcagtggg  tgtaattggt  cagagcttct  taaaagaagc  360
aactcactat  tttactagat  gatttggttc  ttctgaattc  ctctttaagg  ctacagggtg  420
tgcttcttac  tttgaactga  tcactttcta  ggtccccacc  cttacttctt  gtttttcata  480
cccttgtaga  gttttctcca  ctataggaaa  cccatgcttg  acatttgctc  accagagtta  540
cagagctctc  agggaggaga  ctcagagttc  taacctctct  gccctccttt  tttcccagga  600
cgacaacatc  atgagggtct  tccagctggt  tcaaaatgtc  atgtaactgg  tgacactcag  660
ccattcagct  ctcagagaca  ttgtactaaa  caaccactt  aacacctga  tctgcccttg  720
ttctgatttt  acacaccaac  tottgggaca  gaacacactt  ttacactttg  gaagaattct  780
ctgctgaaga  ctttctatgg  aacctagcat  catgtggctc  agtctctgat  tgccaaactc  840
tctcttttct  tcttcttgag  agagacaaga  tgaaatttga  gtttgttttg  gaagcatgct  900
catctcctca  cactgctgcc  ctatggaagg  tccctctgct  taagcttaaa  cagtagtgca  960
caaaatatgc  tgcttacgtg  cccccagccc  actgcctcca  ag  1002

```

<210> 240  
 <211> 1002



197/203

<212> DNA  
<213> homo sapiens

<400> 240

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actttgaact gatcactttc taggtcccca cccttacttc ttgtttttca tacccttgta 60
gagttttctc catataggaa acccatgctt gacatttgct caccagagtt acagagctct 120
cagggaggag actcagagtt ctaaccctct tgccctcctt tttcccagg acgacaacat 180
catgaggtct ctccagctgt ttcaaaatgt catgtaactg gtgacactca gccattcagc 240
tctcagagac attgtactaa acaaccacct taacaccctg atctgccctt gttctgattt 300
tacacaccaa ctcttgggac agaaacacct tttacacttt ggaagaattc tctgctgaag 360
actttctatg gaaccagca tcatgtggct cagtctctga ttgccaaactc ttctcttttc 420
ttcttcttga gagagacaag atgaaatttg agtttgtttt ggaagcatgc tcatctcttc 480
acactgctgc cctatggaag gttccctctg cttaaagctta aacagtagtg cacaaaatat 540
gctgcttacg tgcccccagc ccaactgcctc caagtccaggc agaccttggg gaatctggaa 600
gcaagaggac ctgagccaga tgcacacat ctctgatggc ctcccaaacc aatgtgcctg 660
tttctcttcc tttgggtggga agaattgagag ttatccagaa caattaggat ctgtcatgac 720
cagattggga gagccagcac ctaacatatg tgggtagga ctgaattatt aagcatgata 780
ttgtctgatg acccaaaactg cccatgtcat ttgtttccag aaacgaggac caataattct 840
ctcacactgg catttgtgct ggtagtacaa gtcctttaat atgtccagga agggagccat 900
tgcccagtg tccatatctc caccacatcc cctgcttgag cccagcgtg catgtccctc 960
ccaagaagtc cagaatgcct gcaaattgct gtaattttat ac 1002
```

<210> 241  
<211> 1002  
<212> DNA  
<213> homo sapiens

<400> 241

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ctgatctgcc cttgttctga ttttacacac caactcttgg gacagaaaca ccttttacac 60
tttgaagaa ttctctgctg aagactttct atggaacca gcatcatgtg gctcagtctc 120
tgattgccaa ctcttctctt ttcttcttct tgagagagac aagatgaaat ttgagtttgt 180
tttgaagca tgctcatctc ctccactgc tgccctatgg aaggctccctc tgcttaagct 240
taaacagtat tgcacaaaat atgctgctta cgtgccccca gccactgcc tocaagtcag 300
gcagaccttg gtgaatctgg aagcaagagg acctgagcca gatgcacacc atctctgatg 360
gcctcccaaa ccaatgtgcc tgtttctctt cctttgggtg gaagaatgag agttatccag 420
aacaattagg atctgtcatg accagattgg gagagccagc acctaacata tgtgggatag 480
gactgaatta ttaagcatga ctattgtctg atgaccāaaa ctgcccattg catttgtttc 540
cagaaacgag gaccaataat tctctāacac tggcatttgt gctggtagta caagtccttt 600
aatatgtcca ggaagggagc cattgccag tggctcatat ctccaccaca tcccctgctt 660
gagcccagcg ctgcatgtcc ctcccaagaa gtccagaatg cctgcaaatt gctgtaattt 720
tataccatgt tctaaccaat aaacagaact atttcttaca ctctcaatca cttcttcatg 780
actccgttag gtaagagagg taagctgtga aaagggagg ctagtccatt catttgacac 840
ccaattatta gtgcagttgt cctccatat gtgtgaagga tcagtccag gactctccat 900
accāaaatct gcagatactc aagtccaca gctagccctg agggactcgt gttttcagaa 960
aatttggcct ccatatatgc aggtttcaca tcctataaat ac 1002
```

<210> 242  
<211> 200  
<212> DNA  
<213> homo sapiens

<400> 242

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cccaagctca accattccaa tgccatctcc tctggttcca gataagattg aagatgagct 60
ggagatgacc atggtttgcc atcggcccg gggactggag cagctcgagg ccagaccaaa 120
cttcaccaag agggagctgc aggtccctta tcgaggcttc aaaaatgtaa gaccctgca 180
cgctctgaag gcctgggggg
```

198/203

<210> 243  
 <211> 200  
 <212> DNA  
 <213> homo sapiens

<400> 243  
 ttgtctacca tctcctctct aagaagggtt cccacaatat atcccccttct gcttgcttct 60  
 aactccctat cacctgctaa agaaggacct caccttttaa tcactttcat tgccaagggg 120  
 cacaaggagc cccaaactct gtcacctagg aagagcttga cctcatgggt tccacactgt 180  
 gtgcttttat gtccctgctc 200

<210> 244  
 <211> 200  
 <212> DNA  
 <213> homo sapiens

<400> 244  
 accctcaata cagactgttc ctacagtcca cgtcctcagc cactagacca tacggccact 60  
 gggatgatag acagaccact gcagccatgg ataaggcaaa aacagggctg gctgtgttga 120  
 tctgtgtctc tcagagctcc attcttctc aagggggcac cttgcaaaaa aaaacaaaaa 180  
 aatggggcag ggtagggaac 200

<210> 245  
 <211> 200  
 <212> DNA  
 <213> homo sapiens

<400> 245  
 gccactggga tgatagacag accactgcag ccatggataa ggcaaaaaca gggctggctg 60  
 tgttgatctg tgtctctcag agctccattc ttcctcaagg gggcaccttg caaaaaaaaa 120  
 caaaaaaatg gggcagggtg gggaaactgaa ggcaggagct cttcacagag catagccaca 180  
 tcctccaggc agacaagagg 200

<210> 246  
 <211> 403  
 <212> DNA  
 <213> homo sapiens

<400> 246  
 ggcaaaaaca gggctggctg tgttgatctg tgtctctcag agctccattc ttcctcaagg 60  
 gggcaccttg caaaaaaaaa caaaaaaatg gggcagggtg gggaaactgaa ggcaggagct 120  
 cttcacagag catagccaca tcctccaggc agacaagagg acgcaggagg caccattctg 180  
 tgagagtatc acagtctgac ctcaaagaca cagcttcaca ctgtctgatg gcttgatggt 240  
 taatgtcaact ctgccttttc cccttctcag gactttgtaa ccgctctgtc gattttattg 300  
 agaggaactg tccacgagaa actaagggtg acatttaatt tgtatgacat caacaaggac 360  
 ggatacataa acaaagaggt aagtgaagctg gggccagggg tgt 403

<210> 247  
 <211> 403  
 <212> DNA  
 <213> homo sapiens

<400> 247  
 gacaagagga cgcaggaggc accattctgt gagagtatca cagtctgacc caaagacaca 60  
 gcttcacact gtctgatggc ttgatggta atgtcactct gccttttccc cttctcagga 120  
 ctttgaacc gctctgtcga ttttattgag aggaactgtc cacgagaaac taagggtggac 180  
 atttaatttg tatgacatca accaaggacg gatacataaa caaagaggta agtgagctgg 240

199/203

ggccaggggt	gtgagagggc	tccagtgaag	gtaactaacc	caacagaaaa	cagccccagg	300
catgaggata	gcactgtctg	aatgaggcag	gctctgcttt	ggggctaaca	gagctgggtcc	360
ctggcaaaat	aaagaaggcc	tccctcattg	ccctaccctg	ccc		403

&lt;210&gt; 248

&lt;211&gt; 1781

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 248

ccaccaggggt	cccttccaac	tcacggagcc	tatgggtactg	aatggcagcc	agggtttttta	60
tggagcaata	gctggacttc	acatttgcatt	aatgccttgc	agtttctactg	tttaagagtac	120
tgcattgtat	tctaattata	tgaatctcgg	tcatttccttt	atgacatttc	tgaggaatac	180
tatctcaatc	aagaaaagcc	ctaattgcac	tcctctccta	tcccgggtgag	agagcacaga	240
ctcgtgcctg	ctccgcaggg	gtggaggctg	gaattcagta	gtctgagtcg	gggatgcctg	300
gagcaggagg	tggtcagggg	cattgtcctt	tccaagtcag	gaaggcagac	agcacctgct	360
gttggtgcc	aggttactgg	acaggctcgg	agggtctgtg	ctgtctgtcc	gatgttcaca	420
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gttcttccag	atcctgatca	aggcacagag	aattgatcta	tcagattaac	caggaaggaa	600
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caaagcctgg	gagagctcca	gtcctctcct	ccctgctctg	ctcaacttca	ctctcctcct	780
cggttccctt	ggagtacctt	gtgccccggc	agtgtctgtc	cggccctggc	atcctgaggt	840
ctccccgtgg	tgaggactta	agtggacacg	caggagtggg	tggagagagg	gagggagagt	900
ttgccctgca	ggctctctgg	atgcagaagc	cagactcgct	gcagaggcag	ctgtgctgtt	960
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gtgaccattc	tggtgcaccc	aggctcttga	aaaagctggg	gaaattgggt	gctgggattc	1320
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gtttcaagaa	gttatccatg	gaaggttgta	ttttgttgat	aaaagagaga	tttgatgcag	1560
tgggttgatg	gtaattctgc	agaacagaga	cgcttgaggg	ggccagtggg	aggtgggtgat	1620
gggcccgcct	ctgctttgcc	ctggtggctt	cagaaaccgg	atcagctctg	cacctcaagt	1680
gc'caagagcc	tcctctcata	gggttccagc	gtctcgtgct	tctggggctt	cattcatcgt	1740
tctgctttct	tggatccctg	tccctccaca	tttcatgcct	a		1781

&lt;210&gt; 249

&lt;211&gt; 833

&lt;212&gt; DNA

&lt;213&gt; homo sapiens

&lt;400&gt; 249

caaggcacag	agaattgatc	tatcagatta	accaggaagg	aaagagtggg	agagcgagtg	60
tgggaggctg	tggggctgag	tggtttctgc	gtagcagtc	cctcccttct	gacttgagta	120
tttaattgcta	cattaccgct	gccatgtaag	aaagacagtc	agcaaagcct	gggagagctc	180
cagctcctcc	ctccctgctc	tgctcaactt	cactctcctc	ctcggttccc	ttggagtacc	240
ttgtgccccg	gcagtgtgtg	cccgccctg	gcactcctgag	gtcctcccgt	ggtaggact	300
taagtggaca	gcaggagtgg	gtggagagag	ggaggagag	tttgccctgc	aggctctctg	360
gatgcagaag	ccagactcgc	tgacagaggca	gctgtgctgt	tcccggagcc	tggctttcag	420
gggtgcatcc	gtcactcagg	gttcattcac	ccaggcaggc	tccaagttcc	tgggggtcac	480
aaggtgggca	ctgtcccttc	tgggtgctga	cagcagagcc	tggctcccct	ccgccaccat	540
gagcggctgc	tccaaaagat	gcaagcttgg	gttcgtgaaa	tttgcccaga	ccatctttaa	600

200/203

```

gctcatcact gggaccctca gcaaaggat ggaaactggc cttgaccctt gctttctgtc 660
ttgatatggc ctggctggtc gcattgcctc ggtgtggtga gcgtgacat tctgggtgac 720
ccaggctcttg gaaaaagctg gggaaattgg tggctgggat tcgaggttgc tgacaacctg 780
cgtcctggct ttgagtaggc gggcaccag ccagggaact cagctggctg taa 833

```

```

<210> 250
<211> 857
<212> DNA
<213> homo sapiens

```

```

<400> 250
acagagaatt gatctatcag attaaccagg aaggaaagag tgggagagcg agtgtgggag 60
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gctacattac cgctgccatg taagaaagac agtcagcaaa gcctgggaga gctccagctc 180
ctccctccct gctctgtcga acttcaactc cctcctcggg tcccttgagg taccttgtgc 240
cccggcagtg ctgtcccggc cctggcatcc tgaggctcct ccgtgggtgag gacttaagtg 300
gacagcagga gtgggtggag agagggaggg agagtttgcc ctgcaggctc tctggatgca 360
gaagccagac tcgctgcaga ggcagctgtg ctgttcccg agcctggctt caggggtgca 420
tccgtcacta cagggttcat tcaccaggc aggtccaag ttctggggg gcacaagggtg 480
ggcactgtcc cttctgggtg ctgacagcag agcctggctc ccctccgcca ccatgagcgg 540
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cactgggacc ctcagcaaag gtatggaaac tggccttgac ccttgctttc tgtcttgata 660
tggcctggct ggtcgcattg cctcgggtgt gtgagcgtga ccattctggt gcaccaggt 720
cttggaaaaa gctggggaaa ttggtggctg ggattcgagg ttgctgacaa cctgcgtcct 780
ggctttgagt aggcgggcac ccagccaggg aactcagctg gctgtaattg cctggaactt 840
tggaatgga gttggtg 857

```

```

<210> 251
<211> 890
<212> DNA
<213> homo sapiens

```

```

<400> 251
tgccccact tcagggtcat gaggattcat aaacctatt ctgcgaagtg cctccaggaa 60
tcatcaaggg agctagggca gctotgagtc tccaccaggc ccacctccg cctctcaggg 120
ctgagcttca cttcccttcc caaaggggccc agggagaggg gctgctgatg acatgatctc 180
agaggaaggc caaggcctcc aggtgcctc tgggcctggc acaggaagga ggaggagaaa 240
atagggagcc caaggaaaga tcaaccagc ccagcccaag gacccccagc cccagcccca 300
gccccagctg ggtcaaaact aattgaaaac agaactgaaa aggetgcttt tgcccttcc 360
ctagactcag catcatcaag actggaggga cagagcattt gaatcatcag acgctgggcc 420
agactgtcac cccacgcgtt ttctcatttt atcgtcctaa gaagccaga aggtgcgtaa 480
aatggcctgt cccaaacaga tgaggacatt acctttctcc tcttctctc cctccttctt 540
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gaggctgagc gtgttgacta aggtcacaca gctacaaaca tcagggaact gcgaaaaagc 660
tctgttccct ggtgacaggt gttctgtgat cctaacacag ccggagggtg ggacaacgtc 720
cttgacgtaa caaaggccct gttgctcaac tcagtggaca tcaggccctg ttttcattca 780
ttagcaggtc agggattcca gtgtcacctg tgccatgtat tccagctgat ctacctgcaa 840
gcctctactc cccattttcc cagcagcagc cgcagacacc acccaactgg 890

```

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<210> 252
<211> 943
<212> DNA
<213> homo sapiens

```

```

<400> 252
gggtcatgag gattcataaa ccctattctg cgaagtgcct ccaggaatca tcaagggagc 60
tagggcagct ctgagtctcc accaggccca ccctccgctc ctcagggtg agcttcactt 120

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201/203

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cccttcccaa agggggccagg gagagggggt gctgatgaca tgatctcaga ggaaggccaa 180
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ggaaagatca acccagccca gcccaaggac ccccagcccc agccccagcc ccagctgggc 300
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cgcgttttct cattttatcg tccataagaag ccagaagggt gcgtaaaatg gcctgtaccc 480
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ttgactaagg tcacacagct acaaacatca gggacctgcg aaaaagctct gttccctggg 660
gacaggtgtt ctgtgatcct aacacagccg gaggtgggga caacgtcctt gcagtaacaa 720
aggccctgtt gctcaactca gtggacatca ggccctgttt tcattcatta gcaggtcagg 780
gattccagtg tcacctgtgc catgtattcc agctgatcta cctgcaagcc tctactcccc 840
atthttccag cagcagccgc agacaccacc caactggcag aaatttcaaa caaggggttc 900
tgccttgca cccggtgcaa ggggtgggca cgtggactca cat 943

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<210> 253  
 <211> 841  
 <212> DNA  
 <213> homo sapiens

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<400> 253
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cctggcttct ccaagcacct gctacctga acttactgca ccactctttc cttcctagcc 180
tgaatgcaat ttgcaatgag gagatgattt gattttcttc agccctagac ctccagcttc 240
ctgagagcag gtactcttgc ctcttcttgc tcattattga tccatatatt tagaatagcg 300
cctggcagggt agatggtgct taataaatat tcattgaata aatgaatgaa tgaatgatcc 360
aatgagcccc aaagcaaata acaataaagg acatttgag agtgctctac agagagacaa 420
gtgctttccc tttagcttta tcttaccoca ttctcacaac aatcccctga catgattggg 480
ttcatgtttc acagatgagg aggctaacgg ccagggtgtac ataccagggg acatgggact 540
gggttcatat gagctcaggg gtaaatgatg acaccctttc ccctgccctg aaggatctca 600
gtttgagtag ttgtagcaca cttaggatgt tctgggccag gctgagtggc ggtggatggg 660
ggcgggtggag gtggggtatg caaagcagga aactcggcct ttgctttcta aaagctccca 720
gtctatttga ggccagactt atgcatgcag aacatttggg aaatggtaca agacagcagc 780
aagcatagtg ctgaattgca cataatcagg tgccaactgc attcccttcc ttaactaatc 840
t 841

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<210> 254  
 <211> 895  
 <212> DNA  
 <213> homo sapiens

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<400> 254
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ggaagcaggg accagcccct gctccatctt ccaggattcc aggcctccct ggccctggaca 180
agccctgagc tggcagttag gagagcagag gttgtgaatc tgggtgggacc cccagcagggt 240
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ctggaaccca agttctaato ccacatcctg gctgggcaac ttcaggcaaa tttctaacac 360
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ttggtgggca tcaactgtga caatgtgggt gcacagcagt gggcaatgca aaggaaagga 480
agtatgttag taagtgtccc tcccctgttg cacaaaacag gacacatgct gggattgcag 540
aaaagcaata aatgtgtcac aggtgaagaa aactattcaa ggaccctggc caagtacag 600
gctacctgtg gccctgaggg gacagctcat ggggttggcat taggggaagc agctctcaag 660
gggcctgtat cctggggatt caactctgtg cctatgtggc attgagcctg tgtgaatgtg 720
gtgactgtca tgctgttttg ctgtgtgtgc gtctgcatgc ctgtgtgttt gtgtgtctct 780
ccaccttcgt gggggggcaac tgtagggtga ttatgagcct tgggtctgtc tgtgtgtaca 840

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202/203

atagcaatgt ctgtgcgagac ttaaggacct gcgcccataat gtttgtggga ctttc 895

<210> 255

<211> 890

<212> DNA

<213> homo sapiens

<400> 255

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ggacccccag caggtctttc tggctcagtg cctcatctg tgagcagggg ttccccagga 180
gaccacgaca gaggcctgga acccaagttc taatcccaca tcctggctgg gcaacttcag 240
gcaaatctct aacacaaggt aagcctcaat ttctctctgg ggtaatgatc aggcacctgc 300
ttaattcaca ggggttttgt gggcatcacg tggacaatgt ggttgacacag cagtgggcaa 360
tgcaaaggaa aggaagtatg ttagtaagtg cccctcccct gttgcacaaa acaggacaca 420
tgctgggatt gcagaaaagc aataaatgct gcactagggt aagaaaacta ttcaaggacc 480
ctggccaagt cacaggctac ctgtggccct gaggggacag ctcatgggtt ggcattaggg 540
gaagcagctc tcaagggggc tgtatcctgg ggattcaact ctgtgctat gtggcattga 600
gcctgtgtga atgtggtgac tgtcatgctg ttttgcgtgt tgtgcgtctg catgcctgtg 660
tgtttgtgtg tctctccacc ttctgtgggg gcaactgtag gtgtattatg agccttgggt 720
ctgtctgtgt gtacaatagc aatgtctgtg cggacttaag gacctgcgcc catatgtttg 780
tgggactttc tgggcatgca tgcctgttta tgaggccata catccgggta ttctgtgaac 840
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<210> 256

<211> 1002

<212> DNA

<213> homo sapiens

<400> 256

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gccagcccaa catggcgaaa ccccgctctt attaaaaaat acaaaaaaat ttagctgggc 120
ctagtgggtg ggcctgtaa tcccagctac tccggaggct gaggcaggag aatcgcttga 180
atctgggagg cagaggttgc agtgagcaga gatcgcaaca ctgcactoca gcctgggcaa 240
cagagcgaga ctccgtctca aaaaaaaaaa aaaaagaaaa agaaaaatga gagtgtagg 300
gccagagggt gctgagggtc ctttctctct ccccaactcc ctgtcactag aagggtgggc 360
ctgccatagg aggattctgc agaaccctca aggaccgcg gagcaggacg gcaccttctt 420
cccatgacca cccatttgga tgtgtttttc acccctttct ggggtggggca gactttcccc 480
ctccccatga gttcaggcag gtgggttaaa taagatttcc cttgaagtcg aatgaaatca 540
caatgcacca cacacaggga cacacacaca cacacacgca cgcacgcaca tcacacacac 600
acacacacac acacacacac acacacacac atacacacac acagtctccc tggggccaat 660
ctactgcccc ctgaacctca cccatcagcc aggtgcctgg ccccggtctt gtctcttagg 720
gttacatgct cccggggctc ccgcacatac cccggcagat gaggggtgcg aggggtgagg 780
gcgcagggtc gggcgctccc cgccccacc gtgcagccct cgcccccgcc ccgcccctcc 840
gtagtggccc gccgcgcgcc cctccgcgc cccctccgc cgctccgact ctgcgccga 900
gcgctggcag caggcagcag gcagcaggcg ggcgcgctgt ggctccgcgc cgcgcgggtc 960
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```

<210> 257

<211> 821

<212> DNA

<213> homo sapiens

<400> 257

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gtgtgggtct gagtgggctt atgactcccc tccaagcctg gctgtaagaa tctaagactt 120
aaagctgaag gaccaaattg gactttctgt cccatccccct ctctgctcca tgcaagcacc 180

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203/203

```

aactgtggat ttttgcccct aattatatta gggaacgctg tcaatcaaaa agatgatggt 240
aaactcatcc agaacaaacc aaaccatggt taaggggaag aaaagattac atcttcaa 300
gccagcatgc catcattaat acaatgtcta atgtagtcaa tatagtccag gcaacattga 360
aaatgaacca ctgcaaatac taggaatata atttcaagag gaagcacaac attctgtggt 420
tctatgcaca cagtcctgta aattatttgc agctcaagta tgtcatgttc ttttaaattt 480
tcccctgggt acagcttgaa caacttccta caagtgttga tatgtcatat tctcattatc 540
atthagttca aaattaccat gatttaatta ccatgagggt gcttttttga tacatgagtt 600
acttagaaat tgaattaggc taggcatggt ggcttcacc tataatccta gcactttgga 660
aggccaaggc aggaggattg cttgagtttg aggccagtct aggcaatata gtgagacctc 720
atctcccaa aagtacaaaa aaactagcca ggcatgggga cacatgccta tagttccagc 780
tactcaaagg ctgaggtggg gaggattgct ttgagcctgg g 821

```

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<210> 258
<211> 573
<212> DNA
<213> homo sapiens

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<400> 258
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ggctccagct ccagggtgtg gtcttagaat gaggcagttt atctgttcag ggcttctctt 180
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gaagcagaaa aaagattgca ctcatctcgc ccttcaacaa ttatactaaa cacctgctct 360
gggccacaga agggccagat cccattcctg tgctcaggaa gccacaggc cggcaggagg 420
aggctggttg gaatgtgtgc tttgcactgt aacggaggca tcgagcatgg taagggactg 480
gcggtgactg ctgcctgcgg acgtcgagac aggggccttt gaagaggcag gacctgtctg 540
gagtcttacc tgggccttgg cctggcaatg ggg 573

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